

SEQUENCE LISTING

<110> University of Utah Research Foundation
 Cognetix, Inc.
 Olivera, Baldomero M.
 McIntosh, J. Michael
 Garrett, James E.
 Watkins, Maren
 Cruz, Lourdes J.
 Shon, Ki-Joon
 Jacobsen, Richard
 Jones, Robert M.
 Cartier, G. Edward
 Shen, Greg S.
 Wagstaff, John D.

<120> Mu-Conopeptides

<130> 2314-280

<150> US 09/010,009

<151> 2001-07-23

<150> US 60/277,270

<151> 2001-03-21

<150> US 60/264,319

<151> 2001-01-29

<150> US 60/245,157

<151> 2000-11-03

<150> US 60/219,619

<151> 2000-07-21

<160> 520

<170> PatentIn version 3.0

<210> 1

<211> 280

<212> DNA

<213> Conus arentus

<400> 1

caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttcttga ccatctgtat 60

gcttctgttt ccccttactg ctcttccgct ggatggggat caacctgcag accgacctgc 120

agagcgtatg caggacgact ttataactga gcatcatccc ctgtttgatc ctgtcaaacg 180

gtgttgcgag aggccatgca acataggatg cgtaccttgt tgttaatgac cagctttgtc 240

atcgcgccct catcaagcga ataagtaaaa cgattgcagt 280

<210> 2

<211> 67

<212> PRT

<213> Conus arentus

<400> 2

Met Met Ser Lys Leu Gly Val Phe Leu Thr Ile Cys Met Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro

20 25 30

Ala Glu Arg Met Gln Asp Asp Phe Ile Thr Glu His His Pro Leu Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Glu Arg Pro Cys Asn Ile Gly Cys Val
50 55 60

Pro Cys Cys
65

<210> 3
<211> 14
<212> PRT
<213> Conus arentus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 12 is Pro or Hyp

<400> 3
Cys Cys Xaa Arg Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
1 5 10

<210> 4
<211> 244
<212> DNA
<213> Conus atlanticus

<400> 4
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccactt 60
actgctcttc cgctggatga agatcaaccg gtacaccgac ctgcagagcg tatgcaggac 120
atttcacatg atcaacatct cttctttgat ctcataaac ggtgctgcga gttgccatgc 180
gggccaggct tttgcgtccc ttgttgctga catcaataac gtgttgatga ccaactttct 240
cgag 244

<210> 5
<211> 69
<212> PRT
<213> Conus atlanticus

<400> 5
Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15
Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
20 25 30
Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
35 40 45
Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
50 55 60
Cys Val Pro Cys Cys
65

<210> 6

<211> 15
 <212> PRT
 <213> Conus atlanticus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 and 13 is Pro or Hyp

<400> 6
 Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 7
 <211> 310
 <212> DNA
 <213> Conus aurisiacus

<400> 7
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgttt 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat caatctgtag accgacctga 120
 agagcgtatg caggacgaca tttcatctga gcagcatccc ttgtttaatc agaaaagaat 180
 gtgttgccgc gaaggccgga aatgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcgttatca cgactaatga ataagtaaaa 300
 cgattgcagt 310

<210> 8
 <211> 74
 <212> PRT
 <213> Conus aurisiacus

<400> 8
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30
 Glu Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45
 Asn Gln Lys Arg Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr
 50 55 60
 Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 9
 <211> 22
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 i
 s Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr,
 di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 9
 Met Cys Cys Gly Xaa Gly Arg Lys Cys Xaa Ser Xaa Phe Arg Asn Ser
 1 5 10 15

Gln Ile Cys His Cys Cys
 20

<210> 10
 <211> 257
 <212> DNA
 <213> *Conus aurisiacus*

<400> 10
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtttgcttct gtttcccctt 60
 actgctcttc cgatcgatgg agatcaatct gtagaccgac ctgcagagcg tatgcaggat 120
 gacatttcac ctgagcagca tcgcttggtc aatcagaaaa gaaggtgctg ccggtggcca 180
 tgcccccgac aaatcgacgg tgaatattgt ggctgttgcc ttggatgata accgtgttga 240
 tgaccaactt tctcgag 257

<210> 11
 <211> 75
 <212> PRT
 <213> *Conus aurisiacus*

<400> 11
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Ile Asp Gly Asp Gln Ser Val Asp
 20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Arg
 35 40 45

Leu Phe Asn Gln Lys Arg Arg Cys Cys Arg Trp Pro Cys Pro Arg Gln
 50 55 60

Ile Asp Gly Glu Tyr Cys Gly Cys Cys Leu Gly
 65 70 75

<210> 12
 <211> 19
 <212> PRT
 <213> *Conus aurisiacus*

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 13 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or Bromo Trp; Xaa at residue 14 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 12
 Cys Cys Arg Xaa Xaa Cys Xaa Arg Gln Ile Asp Gly Xaa Xaa Cys Gly
 1 5 10 15

Cys Cys Leu

<210> 13

<211> 262
 <212> DNA
 <213> Conus aurisiacus

<400> 13
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
 gacatttcac ctgagcagta tcccttggtt gataagagac aaaagtgttg cactgggaag 180
 aaggggtcat gctccggcaa agcatgcaaa aatctcaaat gttgctctgg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 14
 <211> 78
 <212> PRT
 <213> Conus aurisiacus

<400> 14
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Gln Pro Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro
 35 40 45
 Leu Phe Asp Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys
 50 55 60
 Ser Gly Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 15
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 15
 Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 16
 <211> 232
 <212> DNA
 <213> Conus aurisiacus

<400> 16
 ggatccatga tgtctaaact gggagtcttg ctgaccatct gtctgcttct gtttccactt 60
 actgctgttc cgctggatgg agatcaacct ctagaccgac acgcggagcg tatgcatgat 120
 ggcatttcac ctaaagccca tccctgggtt gatcccgta aacggtgttg caaggtgcaa 180

tgcgagtctt gcaccccttg ttgctaacgt gttgatgacc aactttctcg ag 232

<210> 17
 <211> 68
 <212> PRT
 <213> Conus aurisiacus

<400> 17
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Leu Asp
 20 25 30
 Arg His Ala Glu Arg Met His Asp Gly Ile Ser Pro Lys Arg His Pro
 35 40 45
 Trp Phe Asp Pro Val Lys Arg Cys Cys Lys Val Gln Cys Glu Ser Cys
 50 55 60
 Thr Pro Cys Cys
 65

<210> 18
 <211> 13
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(13)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 11 i
 s Pro or Hyp

<400> 18
 Cys Cys Lys Val Gln Cys Xaa Ser Cys Thr Xaa Cys Cys
 1 5 10

<210> 19
 <211> 241
 <212> DNA
 <213> Conus bandus

<400> 19
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtatgcttct gtttcccctc 60
 actgctcttc cgatggatgg agatcaacct gcagaccgac ctgcagagcg tagtcaggac 120
 gtttcatctg aacagcatcc cttgtttgat cccgtcaaac ggtgttgcaa ctggccatgc 180
 tccatgggat gcatcccttg ttgctactat taataacgtg ttgatgacca aactttctcga 240
 g 241

<210> 20
 <211> 70
 <212> PRT
 <213> Conus bandus

<400> 20
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30

Arg Pro Ala Glu Arg Ser Gln Asp Val Ser Ser Glu Gln His Pro Leu
35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Trp Pro Cys Ser Met Gly Cys
50 55 60

Ile Pro Cys Cys Tyr Tyr
65 70

<210> 21
<211> 16
<212> PRT
<213> Conus bandus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp or
bromo-Trp; Xaa at residue 15 and 16 is Tyr, 125I-Tyr, mono-iodo-
Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 21
Cys Cys Asn Xaa Xaa Cys Ser Met Gly Cys Ile Xaa Cys Cys Xaa Xaa
1 5 10 15

<210> 22
<211> 298
<212> DNA
<213> Conus betulinus

<400> 22
caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttctgtct 60
gcttctgttt cccctgactg ctcttccgct ggatgaagat caacctgcag accgacctgc 120
agagcgtatg caggacattt catctgaaca gcatcccttg tttgatcccg tcaaacgggtg 180
ttgcgaattg ccatgccatg gatgcgtccc ttgttgctgg ccttaataac gtgtggatga 240
ccaactgtgt tatcacggcc acgtcaagtg tctaataaat aagtaaaatg attgcagt 298

<210> 23
<211> 67
<212> PRT
<213> Conus betulinus

<400> 23
Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Ile Ser Ser Glu Gln His Pro Leu Phe Asp
35 40 45

Pro Val Lys Arg Cys Cys Glu Leu Pro Cys His Gly Cys Val Pro Cys
50 55 60

Cys Trp Pro
65
<210> 24
<211> 15
<212> PRT
<213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 1
 1 and 15 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 24
 Cys Cys Xaa Leu Xaa Cys His Gly Cys Val Xaa Cys Cys Xaa Xaa
 1 5 10 15

<210> 25
 <211> 298
 <212> DNA
 <213> Conus betulinus

<400> 25
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttctgtct 60
 gcttctgttt cccctgaactg ctcttccgct ggatgaagat caacctgcag accgacatgc 120
 agagcgtatg caggacattt cacctgaaca gcatccctcg tttgatcccg tcaaacgggtg 180
 ttgcgggctg ccatgcaatg gatgcgtccc ttgttgctgg ccttcataac gtgtggacga 240
 ccaactttgt tatcacggcc acgtcaagtg tctgatgaat aagtaaaacg attgcagt 298

<210> 26
 <211> 68
 <212> PRT
 <213> Conus betulinus

<400> 26
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Phe Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg His
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ser Pro Glu Gln His Pro Ser Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Gly Leu Pro Cys Asn Gly Cys Val Pro Cys
 50 55 60
 Cys Trp Pro Ser
 65

<210> 27
 <211> 16
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 11 and 15 is Pro or Hyp; Xaa at residue 14 is T
 rp or bromo-Trp

<400> 27
 Cys Cys Gly Leu Xaa Cys Asn Gly Cys Val Xaa Cys Cys Xaa Xaa Ser
 1 5 10 15

<210> 28
 <211> 282

<212> DNA

<213> *Conus betulinus*

<400> 28

```

caagagggat cgatagcagt tcatgatgtt taaactggga gtcttggtga ccatctatat      60
gcttctgttt ccctttactg ctcttccgct ggatggagat caacctgcag accaacctct      120
agagcgcattg cagtatgaca tggtacgtgc agtgaatccc tggtttgatc ccgtcaaaaag      180
gtgctgctcg aggaactgcg cagtatgcat cccttggtgc ccgaattggc cagcttgatt      240
atcgcgcca agagtctaata gaataagtaa aacgattgca gt                          282

```

<210> 29

<211> 71

<212> PRT

<213> *Conus betulinus*

<400> 29

```

Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Tyr Met Leu Leu Phe
1           5           10           15
Pro Phe Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
          20           25           30
Leu Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Val Asn Pro Trp Phe
          35           40           45
Asp Pro Val Lys Arg Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Pro
          50           55           60
Cys Cys Pro Asn Trp Pro Ala
65           70

```

<210> 30

<211> 18

<212> PRT

<213> *Conus betulinus*

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 11, 14 and 17 is Pro or Hyp; Xaa at residue 16 is Trp or bromo-Trp

<400> 30

```

Cys Cys Ser Arg Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa Asn Xaa
1           5           10           15

```

Xaa Ala

<210> 31

<211> 325

<212> DNA

<213> *Conus bullatus*

<400> 31

```

caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct      60
gcttctgttt cccctttttg ctcttccgca ggatggagat caacctgcag accgacctgc      120
agagcgtatg caggacgaca tttcatctga gcagaattcc ttgcttgaga agagagttac      180
tgacaggtgc tgcaaaggga agagggaatg cggcagatgg tgcagagatc actcgcgttg      240

```

ttgcggtcga cgataagctg ttgatgacca gctttgttat cacggctaca tcaagtgtct 300
 agtgaataag taaaatgatt gcagt 325

<210> 32
 <211> 77
 <212> PRT
 <213> Conus bullatus
 <400> 32

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Ser Leu Leu
 35 40 45
 Glu Lys Arg Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly
 50 55 60
 Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 33
 <211> 23
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 11 is Glu or gamma-carboxy Glu; Xaa at residue 15
 is Trp or bromo-Trp

<400> 33
 Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Xaa Cys Gly Arg Xaa Cys
 1 5 10 15
 Arg Asp His Ser Arg Cys Cys
 20

<210> 34
 <211> 326
 <212> DNA
 <213> Conus bullatus

<400> 34
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt cccctttttg ctcttcggca ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggatgaca tttcatctga gcagaatccc ttgcttgaga agagagttgg 180
 tgacaggtgc tgcaaaggga agaggggggtg cggcagatgg tgacagagatc actcacgttg 240
 ttgcggtcga cgataacgtg ttgatgacca gctttgttat cacggctaca tcaagtgtct 300
 tagtgattaa gtaaaacgat tgcagt 326

<210> 35
 <211> 77
 <212> PRT
 <213> Conus bullatus

<400> 35
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Phe Ala Leu Arg Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Pro Leu Leu
 35 40 45
 Glu Lys Arg Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly
 50 55 60
 Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 36
 <211> 23
 <212> PRT
 <213> Conus bullatus
 <220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 15 is Trp or bromo-Trp

<400> 36
 Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly Arg Xaa Cys
 1 5 10 15
 Arg Asp His Ser Arg Cys Cys
 20

<210> 37
 <211> 331
 <212> DNA
 <213> Conus bullatus

<400> 37
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt cccctttttg ctcttccgca ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgaca tttcatctga gcagaatccc ttgcttgaga agagagttgg 180
 tgaaaggtgc tgcaaaaacg ggaagagggg gtgcggcaga tgggtgcagag atcactcacg 240
 ttgttcggt cgacgataac gtgttgatga ccgaggcttt cgttatcacg gctacatcaa 300
 gtgtctagtg aataagtaaa acgattgcag t 331

<210> 38
 <211> 78
 <212> PRT
 <213> Conus bullatus

<400> 38
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asn Pro Leu Leu
 35 40 45

Glu Lys Arg Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys
 50 55 60

Gly Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 39

<211> 24

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 16 is Trp or bromo-Trp

<400> 39

Val Gly Xaa Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Xaa
 1 5 10 15

Cys Arg Asp His Ser Arg Cys Cys
 20

<210> 40

<211> 337

<212> DNA

<213> Conus bullatus

<400> 40

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgttga ccatctgtct 60
 gcttctgttt cccctttttg ctcttccgca ggacggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgacc tttcatctga gcagcatccc ttgtttgaga agagaattgt 180
 tgacaggtgc tgcaacaaag ggaacgggaa gagggggtgc agcagatggt gcagagatca 240
 ctcacgttgt tgcggtcgac gatgaactgt tgatgaccga ggctttgggt atcacggcta 300
 catcaagtgt ctagtgaata agtaaaacga ttgcagt 337

<210> 41

<211> 80

<212> PRT

<213> Conus bullatus

<400> 41

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe
 35 40 45

Glu Lys Arg Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg
 50 55 60

Gly Cys Ser Arg Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75 80

<210> 42

<211> 26
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(26)
 <223> Xaa at residue 18 is Trp or bromo-Trp

<400> 42
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15

Arg Xaa Cys Arg Asp His Ser Arg Cys Cys
 20 25

<210> 43
 <211> 337
 <212> DNA
 <213> Conus bullatus

<400> 43
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt cccctttttg ctcttccgca ggatggagat caacctgcag accgacctgc 120
 tgagcgtatg caggacgaca tttcatctga gcggaatccc ttgtttgaga agagcgttgg 180
 tttatattgc tgccgaccca aaccaacgg gcagatgatg tgcgacagat ggtgcgaaaa 240
 aaactcacgt tgttgcggtc gacgataatg tgttgatgac cagctttggt atcaaggcta 300
 catcaagtat ctagtgaata agtaaaacga ttgcagt 337

<210> 44
 <211> 77
 <212> PRT
 <213> Conus bullatus

<400> 44
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Asn Pro Leu Phe Glu Lys
 35 40 45

Ser Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp
 50 55 60

Arg Trp Cys Glu Lys Asn Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 45
 <211> 27
 <212> PRT
 <213> Conus bullatus

<220>
 <221> PEPTIDE
 <222> (1)..(27)
 <223> Xaa at residue 21 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 19 is Trp or bromo-Trp; Xaa a

t residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 45

Val Gly Leu Xaa Cys Cys Arg Xaa Lys Xaa Asn Gly Gln Met Met Cys
1 5 10 15

Asp Arg Xaa Cys Xaa Lys Asn Ser Arg Cys Cys
20 25

<210> 46

<211> 323

<212> DNA

<213> Conus bullatus

<400> 46

caagaaggat cgatagcagt tcatgatgtc taaactggga gttttgttga ccatctgtct 60
gcttctgttt ccccttactg ctcttcgat ggatggagat caatctgtag accgacctgc 120
agaacgtatg caggacgacc tttcatctga gcagcatccc ttgtttgttc agaaaagaag 180
gtgttgccgc gaaggcttga catgccccag atattggaaa aacagtcaga tttgtgcttg 240
ttgttaaagt acaacgtgtc gatgaccaac ttcggtatca cgactacgcc aagtgtctaa 300
tgaataagta aaacgattgc agt 323

<210> 47

<211> 74

<212> PRT

<213> Conus bullatus

<400> 47

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Val Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Leu Ser Ser Glu Gln His Pro Leu Phe
35 40 45

Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr
50 55 60

Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys
65 70

<210> 48

<211> 22

<212> PRT

<213> Conus bullatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 48

Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 49
<211> 322
<212> DNA
<213> Conus bullatus

<400> 49
caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt cccctttttg ctcttccgca ggatggagat caacctgcag accgacctgc 120
tgagcgtatg caggacgaca tttcatctga gcaggatccc ttgtttgttc agaaaagaag 180
gtgttgccgc gaaggcttga catgccccag atattggaaa aacagtcaga tttgtgcttg 240
ttgttaaagt acaacgtgtg atgaccaact tcggtatcac gactacgcca agtgtctaata 300
gaataagtaa aacgattgca gt 322

<210> 50
<211> 74
<212> PRT
<213> Conus bullatus

<400> 50
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Phe Ala Leu Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30
Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Asp Pro Leu Phe
35 40 45
Val Gln Lys Arg Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr
50 55 60
Trp Lys Asn Ser Gln Ile Cys Ala Cys Cys
65 70

<210> 51
<211> 22
<212> PRT
<213> Conus bullatus

<220>
<221> PEPTIDE
<222> (1)..(22)
<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 10 is
Pro or Hyp; Xaa at residue 13 is Trp or bromo-Trp; Xaa at residue
12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr
or O-phospho-Tyr

<400> 51
Arg Cys Cys Gly Xaa Gly Leu Thr Cys Xaa Arg Xaa Xaa Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 52
<211> 238

<212> DNA

<213> *Conus capitaneus*

<400> 52

ggatccatga tgtctaaact gggagtcttg gtgaccatct gcctgcttct gtttcccctt 60

gctgcttttc cactggatgg aaatcaacct gcagaccacc ctgcaaagcg tacgcaagat 120

gacagttcag ctgccctgat caatacctgg attgatcatt cccattcttg ctgcagggac 180

tgcggtgaag attgtggttg ttgttgccgg taacgtgttg atgaccaact ttctcgag 238

<210> 53

<211> 70

<212> PRT

<213> *Conus capitaneus*

<400> 53

Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
1 5 10 15Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asn Gln Pro Ala Asp
20 25 30His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
35 40 45Thr Trp Ile Asp His Ser His Ser Cys Cys Arg Asp Cys Gly Glu Asp
50 55 60Cys Val Gly Cys Cys Arg
65 70

<210> 54

<211> 15

<212> PRT

<213> *Conus capitaneus*

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa at residue 8 is Glu or gamma-carboxy Glu

<400> 54

Ser Cys Cys Arg Asp Cys Gly Xaa Asp Cys Val Gly Cys Cys Arg
1 5 10 15

<210> 55

<211> 323

<212> DNA

<213> *Conus characteristicus*

<400> 55

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60

gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120

agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180

gtgttgcggc cccggcggtt catgccccgt atatttcaga gacaatttta tttgtggttg 240

ttgttaaagt acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300

tgaataagta aaatgattgc agt 323

<210> 56
 <211> 74
 <212> PRT
 <213> Conus characteristicus

<400> 56
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60
 Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 57
 <211> 21
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue 11 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 57
 Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
 1 5 10 15
 Ile Cys Gly Cys Cys
 20

<210> 58
 <211> 316
 <212> DNA
 <213> Conus characteristicus

<400> 58
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat gaacctgcaa accgacctgt 120
 cgagcgtatg caggacaaca tttcatctga gcagtatccc ttgtttgaga agagacgaga 180
 ttgttgcaact ccgccgaaga aatgcaaaga ccgacaatgc aaacccaga gatgttgccg 240
 tggacgataa cgtgttgatg accaacttta tcacggctac gtcaagtgtt tagtgaataa 300
 gtaaaatgat tgcagt 316

<210> 59
 <211> 75
 <212> PRT
 <213> Conus characteristicus

<400> 59
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
50 55 60

Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
65 70 75

<210> 60

<211> 22

<212> PRT

<213> Conus characteristicus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 60

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
1 5 10 15

Xaa Gln Arg Cys Cys Ala
20

<210> 61

<211> 314

<212> DNA

<213> Conus characteristicus

<400> 61

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60

gcttctgttt ccccttactg ctcttcact ggatggagat caacctgcag atcaatctgc 120

agagcgacct gcagagcgta cgcaggacga cattcagcag catccgttat atgatccgaa 180

aagaaggtgt tgccgttatc catgccccga cagctgccac ggatcttgct gotataagt 240

ataacatgtt gatggccagc tttgttatca cggccacgtc aagtgtctta atgaataagt 300

aaaacgattg cagt 314

<210> 62

<211> 72

<212> PRT

<213> Conus characteristicus

<400> 62

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
20 25 30

Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
35 40 45

Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser

50 55 60

Cys His Gly Ser Cys Cys Tyr Lys
65 70

<210> 63
<211> 18
<212> PRT
<213> Conus characteristicus

<220>
<221> PEPTIDE
<222> (1)..(18)
<223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos pho-Tyr

<400> 63
Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
1 5 10 15

Xaa Lys

<210> 64
<211> 292
<212> DNA
<213> Conus characteristicus

<400> 64
caagagggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
acagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 180
gtgttgcccg ccggtggcat gcaacatggg atgcaagcct tgttggtgat gaccagcttt 240
gttatcgcg gtcttcatgaa gtgtcttaat gaataagtaa aatgattgca gt 292

<210> 65
<211> 69
<212> PRT
<213> Conus characteristicus

<400> 65
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30
Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
35 40 45
Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
50 55 60

Lys Pro Cys Cys Gly
65

<210> 66
<211> 15
<212> PRT
<213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3, 4 and 13 is Pro or Hyp

 <400> 66
 Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

 <210> 67
 <211> 293
 <212> DNA
 <213> Conus characteristicus

 <400> 67
 caagagggat c gatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg catgaccgcc ttccaactga aaatcatccc ttatatgata ccgtcaaacg 180
 gtgttgcatg gattcggaat gcgactattc ttgctggcct tgctgtatgt ttggataacc 240
 tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

 <210> 68
 <211> 71
 <212> PRT
 <213> Conus characteristicus

 <400> 68
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

 Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

 Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

 Trp Pro Cys Cys Met Phe Gly
 65 70

 <210> 69
 <211> 17
 <212> PRT
 <213> Conus characteristicus

 <220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is
 s Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at resid
 ue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr o
 r O-phospho-Tyr

 <400> 69
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
 1 5 10 15

 Phe

<210> 70
 <211> 232
 <212> DNA
 <213> Conus characteristicus

<400> 70
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg taagcaggac 120
 gtttcatctg aacagcatcc cttctttgat cccgtcaaac ggtggtgccg ccggtgttac 180
 atgggatgca tcccttggtg cttttaacgt gttgatgacc aactttctcg ag 232

<210> 71
 <211> 68
 <212> PRT
 <213> Conus characteristicus

<400> 71
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Arg Pro Ala Glu Arg Lys Gln Asp Val Ser Ser Glu Gln His Pro Phe
 35 40 45
 Phe Asp Pro Val Lys Arg Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile
 50 55 60
 Pro Cys Cys Phe
 65

<210> 72
 <211> 14
 <212> PRT
 <213> Conus characteristicus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Ty
 r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 72
 Cys Cys Arg Arg Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10

<210> 73
 <211> 323
 <212> DNA
 <213> Conus circumcisis

<400> 73
 caagaaggat cgatagcagt tcatgatgtc taaactgggg gtattgttga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacgaaa 180
 gtgttgccggc aaagacgggc catgccccaa atatttcaaa gacaatttta tttgtggttg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcgttatca cgattcgcca agtgtcttaa 300

tgaataagta aaatgattgc agt

323

<210> 74

<211> 74

<212> PRT

<213> Conus circumciscus

<400> 74

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Asp Lys Arg Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr
50 55 60

Phe Lys Asp Asn Phe Ile Cys Gly Cys Cys
65 70

<210> 75

<211> 23

<212> PRT

<213> Conus circumciscus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 9 and 11 is Pro or Hyp; Xaa at residue 13 is Tyr,
125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 75

Arg Lys Cys Cys Gly Lys Asp Gly Xaa Cys Xaa Lys Xaa Phe Lys Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 76

<211> 293

<212> DNA

<213> Conus dalli

<400> 76

caagagggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60

acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaacctgc 120

agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgata ccgtcaaacg 180

gtgttgcatg gattcggaat gcgactattc ttgctggcct tgctgtattt tatcataacc 240

tttgttatcg cggcctcatc aagtgtcaaa tgaataagta aaatgattgc agt 293

<210> 77

<211> 71

<212> PRT

<213> Conus dalli

<400> 77

Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60
 Trp Pro Cys Cys Ile Leu Ser
 65 70

<210> 78
 <211> 18
 <212> PRT
 <213> Conus dalli

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is
 s Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at resid
 ue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr o
 r O-phospho-Tyr

<400> 78
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15

Leu Ser

<210> 79
 <211> 299
 <212> DNA
 <213> Conus dalli

<400> 79
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatttgtct 60
 acttctgttt ccccttactg ctgttccact ggatggagat cagcctgcag accgacctgc 120
 agagcgtatg caggacggca tttcatctga acatcatcca ttttttgatt ccgtcaaaaa 180
 gaaacaacag tggtgcccgc cgggtggcatg caacatggga tgcgagcctt gttgtggatg 240
 accagctttg ttatcgcggc tcatgaagtg tcctaataaa taagtaaaac gattgcagt 299

<210> 80
 <211> 72
 <212> PRT
 <213> Conus dalli

<400> 80
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45

Asp Ser Val Lys Lys Lys Gln Gln Cys Cys Pro Pro Val Ala Cys Asn
 50 55 60

Met Gly Cys Glu Pro Cys Cys Gly
 65 70

<210> 81
 <211> 17
 <212> PRT
 <213> Conus dalli

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Glu or
 gamma-carboxy Glu; Xaa at residue 5, 6 and 15 is Pro or Hyp

<400> 81
 Xaa Gln Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Xaa Xaa Cys
 1 5 10 15

Cys

<210> 82
 <211> 290
 <212> DNA
 <213> Conus dalli

<400> 82
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatatgtct 60
 atttctgttt ccccttactg ctgttcagct caatggagat cagcctgcag accaatctgc 120
 agagcgtatg caggacaaaa tttcatctga acatcatccc ttttttgatc ccgtcaaacg 180
 ttgttgcaac gcggggtttt gccgcttcgg atgcacgcct tgttggttggg gaccagcttt 240
 gttatcgcg cctcatcaag tgtctaataa ataagtaaaa tgattgcagt 290

<210> 83
 <211> 69
 <212> PRT
 <213> Conus dalli
 <400> 83

Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Phe Leu Phe
 1 5 10 15

Pro Leu Thr Ala Val Gln Leu Asn Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30

Ala Glu Arg Met Gln Asp Lys Ile Ser Ser Glu His His Pro Phe Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys
 50 55 60

Thr Pro Cys Cys Trp
 65

<210> 84
 <211> 16
 <212> PRT
 <213> Conus dalli

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or brom
 o-Trp

<400> 84
 Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Xaa Cys Cys Xaa
 1 5 10 15

<210> 85
 <211> 288
 <212> DNA
 <213> Conus distans

<400> 85
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctttct 60
 gcttctgttt ccccttactg ctgttccgct ggatggagat caaccgcag acggacttgc 120
 agagcgcagt caggacgaca gttcagctgc actgattaga gactggcttc ttcaaaccgc 180
 acagtgttgt gtgcatccat gcccatgcac gccttgctgt agatgaccag ctttgtcatc 240
 gcggctacgt caagtatcta atgaataagt aagtaaaacg attgcagt 288

<210> 86
 <211> 67
 <212> PRT
 <213> Conus distans

<400> 86
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Phe Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gly Leu
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ser Ser Ala Ala Leu Ile Arg Asp Trp
 35 40 45
 Leu Leu Gln Thr Arg Gln Cys Cys Val His Pro Cys Pro Cys Thr Pro
 50 55 60
 Cys Cys Arg
 65

<210> 87
 <211> 14
 <212> PRT
 <213> Conus distans

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 11 i
 s Pro or Hyp

<400> 87
 Xaa Cys Cys Val His Xaa Cys Xaa Cys Thr Xaa Cys Cys Arg
 1 5 10

<210> 88
 <211> 303
 <212> DNA
 <213> Conus ermineus

<400> 88
acctcaagag ggatcgatcg cagttcatga tgtctaaact gggagccttg ttgaccatct 60
gtctgcttct gtttccatt actgctcttc tgatggatgg agatcagcct gcagaccgac 120
ctgcagagcg tacggaggat gacatttcat ctgactacat tccctgttgc agttggccat 180
gccccgata ctccaacggt aaacttgttt gttttgttg ccttgatga taatgtgttg 240
atgaccaact ttgttatcac ggctacgtca agtgtctact gaataagtaa aatgattgca 300
gta 303

<210> 89
<211> 67
<212> PRT
<213> Conus ermineus

<400> 89
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Ile Thr Ala Leu Leu Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30
Ala Glu Arg Thr Glu Asp Asp Ile Ser Ser Asp Tyr Ile Pro Cys Cys
35 40 45
Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys Phe Cys
50 55 60
Cys Leu Gly
65

<210> 90
<211> 20
<212> PRT
<213> Conus ermineus

<220>
<221> PEPTIDE
<222> (1)..(20)
<223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or
bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 90
Cys Cys Ser Xaa Xaa Cys Xaa Arg Xaa Ser Asn Gly Lys Leu Val Cys
1 5 10 15
Phe Cys Cys Leu
20

<210> 91
<211> 241
<212> DNA
<213> Conus generalis

<400> 91
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctggttct gtttcccctt 60
actgctcttc cactggatgg agaacaacct gtagaccgac atgccgagca tatgcaggat 120
gacaattcag ctgcacagaa cccctgggtt attgccatca gacagtgttg cacgttctgc 180

aactttggat gccaaccttg ttgcctcacc tgataacgtg ttgatgacca acttttctcga 240

g 241

<210> 92
 <211> 70
 <212> PRT
 <213> Conus generalis

<400> 92
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Val Asp
 20 25 30

Arg His Ala Glu His Met Gln Asp Asp Asn Ser Ala Ala Gln Asn Pro
 35 40 45

Trp Val Ile Ala Ile Arg Gln Cys Cys Thr Phe Cys Asn Phe Gly Cys
 50 55 60

Gln Pro Cys Cys Leu Thr
 65 70

<210> 93
 <211> 16
 <212> PRT
 <213> Conus generalis

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Pro or
 Hyp

<400> 93
 Xaa Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Xaa Cys Cys Leu Thr
 1 5 10 15

<210> 94
 <211> 241
 <212> DNA
 <213> Conus generalis

<400> 94
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctggttct gtttcccctt 60

actgctcttc cactggatgg agaacaacct gtagaccgac atgccgagca tatgcaggat 120

gacaattcag ctgcacagaa cccctggggtt attgccatca gacagtgttg cacgttctgc 180

aactttggat gccagccttg ttgcgtcccc tgataacgtg ttgatgacca acttttctcga 240

g 241

<210> 95
 <211> 70
 <212> PRT
 <213> Conus generalis

<400> 95
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val
 1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Val Asp
20 25 30

Arg His Ala Glu His Met Gln Asp Asp Asn Ser Ala Ala Gln Asn Pro
35 40 45

Trp Val Ile Ala Ile Arg Gln Cys Cys Thr Phe Cys Asn Phe Gly Cys
50 55 60

Gln Pro Cys Cys Val Pro
65 70

<210> 96

$\langle 211 \rangle$	16
-----------------------	----

<212> PRT

<213> Conus generalis

<220>

<221> PEPTIDE

<222> (1) .. (16)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 and 16 is Pro or Hyp

<400> 96

Xaa Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Xaa Cys Cys Val Xaa
1 5 10 15

<210> 97

<211> 862

<212> DNA

<213> Conus geographus

<400> 97

gtcgactcta gaggatccga caacaaagag tcaaccccccac tgccacgtca agagcqaagc 60

gccacagcta agacaagagg gatcgatagc agttcatgat gtctaaactg ggaqtcttqt 120

tgaccatctg tctgcttctg tttcccctta ctgctcttcc gatggatgga gatgaacctg 180

caaaccgacc tgtcgagcgt atgcaggaca acatttcata tgagcagtat cccttgtttg 240

agaagagacg agattgttgc actccgccga agaaatgcaa agaccgacaa tgcaaacccc 300

agagatgttg cgctggacga taacgtgttg atgaccaact ttatcacggc tacgtcaaqt 360

gttttagtgaa taagtaaaat gattgcagtc ttgctcagat ttgcttttgt gttttggtct 420

aaagatcaat gaccaaaccg ttgttttgat gcggattgtc atatatttct cgattccaat 480

ccaacactag atgatttaat cacgatagat taattttcta tcaatgcctt gatttttcgt 540

ctgtcatatc agttttggtt atatttattt tttcgtcact gtctacacaa acgcatgcat 600

gcacgcatgc acgcacacac gcacgcacgc tcgcacaaac atgcgcgcgc acgcacacac 660

acacacacac acacaaacac acacacaagc aatcacacaa ttattgacat tattttattta 720

ttcattgatg tatttgttat tcgtttgctt gtttttagaa tagtttgagg ccgtcttttt 780

ggatttattt gaactgcttt attgtatacg agtacttcgt gctttgaaac actgctgaaa 840

ataaaacaaa cactgacgta gc 862

<210> 98

<211> 75
 <212> PRT
 <213> Conus geographus

<400> 98
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
 50 55 60
 Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
 65 70 75

<210> 99
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 99
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 100
 <211> 860
 <212> DNA
 <213> Conus geographus

<400> 100
 ggccagacga caacaaagag tcaacccac tgccacgtca agagcgaagc gccacagcta 60
 agacaagagg gatcgatagc agttcatgat gtctaaactg ggagtcttgt tgaccatctg 120
 tctgcttctg tttccctta ctgctcttcc gatggatgga gatgaacctg caaaccgacc 180
 tgtcgagcgt atgcaggaca acatttcattc tgagcagtat cccttggttg agaagagacg 240
 agattgttgc actccgcga ggaaatgcaa agaccgacga tgcaaaccga tgaaatgttg 300
 cgctggacga taacgtgttg atgaccaact ttatcacggc tagctcagtg tttagtgaat 360
 aagtaaaatg attgcagtct tgctcagatt gcttttgtgt tttggtctaa gatcaatgac 420
 caaaccgttg ttttgatgcg gattgtcata ttttctcga ttccaatcca aactagatg 480
 atttaatcac gatagattaa ttttctatca atgccttgat ttttcgtctg tcatatcagt 540
 tttgtttata tttatTTTTT cgctactgtc tacacaaacg catgcatgca cgcacgcacg 600
 cacacacgca cgcacgctcg cacaaacatg cgcgcgcacg cacacacaca cacacacaca 660

aacacacaca cgaagcaatc acacaattag ttgacattat ttattttattc attgatgtat 720
 ttgtttattcg tttgcttggt tttagaatag tttgaggccg tctttttgga tttatttgaa 780
 ctgctttatt gtatacgagt acttcgtgct ttgaaacact gctgaaaata aaacaaacac 840
 tgacgtagca aaaaaaaaaa 860

<210> 101
 <211> 75
 <212> PRT
 <213> Conus geographus

<400> 101
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg
 50 55 60
 Arg Cys Lys Pro Met Lys Cys Cys Ala Gly Arg
 65 70 75

<210> 102
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 7 and 17 is Pro or Hyp
 <400> 102
 Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15
 Xaa Met Lys Cys Cys Ala
 20

<210> 103
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 7 and 17 is Pro or Hyp

<400> 103
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15
 Xaa Leu Lys Cys Cys Ala
 20

<210> 104
 <211> 321
 <212> DNA

<213> Conus gloriamaris

<400> 104

```
ctcactatag gaattcgagc tcggtacacg ggatcgatag cagttcatga tgtctaaact      60
gggagccttg ttgaccatct gtctacttct gttttcccta actgctgttc cgctggatgg      120
agatcaacat gcagaccaac ctgcagagcg tctgcatgac cgccttccaa ctgaaaatca      180
tcccttatat gatcccgctca aacggtgttg cgatgattcg gaatgcgact attcttgctg      240
gccttgctgt atgtttggat aacctttgtt atcgcgccct cgataagtgt ctaatgaata      300
agtaaaacga ttgcagtagg c                                          321
```

<210> 105

<211> 71

<212> PRT

<213> Conus gloriamaris

<400> 105

```
Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
1          5          10          15
```

```
Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
          20          25          30
```

```
Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
          35          40          45
```

```
Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
          50          55          60
```

```
Trp Pro Cys Cys Met Phe Gly
65          70
```

<210> 106

<211> 17

<212> PRT

<213> Conus gloriamaris

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue is 6 Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 106

```
Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Met
1          5          10          15
```

Phe

<210> 107

<211> 257

<212> DNA

<213> Conus gloriamaris

<400> 107

```
gttcatgatg tctaaactgg gagtcttggt gatcatctgt ctacttctgt tcccccttac      60
```

```
tgctgttccg ctggatggag atcaacctgc agaccgatat gcagagcgta tgcaggacga      120
```

catttcatct gaacatcatc ccatgtttga tgccgtcaga ggggtgttgcc atctgttggc 180
 atgccgcttc ggatgctcgc cttgttggtg gtgatcagct ttgttatcgc ggcctcatca 240
 agtgactcta atgcaaa 257

<210> 108
 <211> 69
 <212> PRT
 <213> Conus gloriamaris

<400> 108
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Tyr
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Met Phe
 35 40 45
 Asp Ala Val Arg Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
 50 55 60
 Ser Pro Cys Cys Trp
 65

<210> 109
 <211> 17
 <212> PRT
 <213> Conus gloriamaris
 <220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 17 is Trp or brom
 o-Trp

<400> 109
 Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys
 1 5 10 15

Xaa

<210> 110
 <211> 471
 <212> DNA
 <213> Conus gloriamaris

<400> 110
 gagacgacaa ggaacagtca accccacagc cacgccaaga gcagacagcc acagctacgt 60
 gaagaagggg ggagagaggt tcgtgatgtt gaaaatggga gtgggtgctat tcattcttct 120
 ggtactgttt cccctggcaa cgctccagct ggatgcagat caacctgtag aacgatatgc 180
 ggagaacaaa cagctcctca acccagatga aaggagggaa atcatattgc atgctctggg 240
 gacgcgatgc tgttcttggg atgtgtgcga ccacccgagt tgtacttgct gcggcggtta 300
 gcgccgaaca tccatggcgc tgtgctgggc ggttttatcc aacaacgaca gcgtttgttg 360
 atttcatgta tcattgcgcc cacgtctctt gtctaagaat gacgaacatg attgcaactct 420
 ggttcagatt tcgtgttctt ttctgacaat aaatgacaaa actccaaaaa a 471

<210> 111
 <211> 71
 <212> PRT
 <213> Conus gloriamaris

<400> 111
 Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro
 1 5 10 15
 Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala
 20 25 30
 Glu Asn Lys Gln Leu Leu Asn Pro Asp Glu Arg Arg Glu Ile Ile Leu
 35 40 45
 His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro
 50 55 60
 Ser Cys Thr Cys Cys Gly Gly
 65 70

<210> 112
 <211> 16
 <212> PRT
 <213> Conus gloriamaris

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo
 -Trp

<400> 112
 Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys Gly
 1 5 10 15

<210> 113
 <211> 304
 <212> DNA
 <213> Conus laterculatus

<400> 113
 cgacctcaag aaggatcgat agcagttcat gatgtctaaa ctgggagtct tgttgaccat 60
 ctgtctgctt ctgtttcccc ttactgctct tccgatggat ggagatcaac ctgcagaccg 120
 acctgcagag cgtatgcagg acgtttcatc tgaacagcat cccttgatg atcccgtaa 180
 acgggtgttg gactggccat gcagcggatg catcccttgt tgctaatagt aacaacgtgt 240
 tgataaccaa ctttcttacc acgactacgt caagtgtcta atgaataagt aaaatgattg 300
 cagt 304

<210> 114
 <211> 65
 <212> PRT
 <213> Conus laterculatus

<400> 114
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Pro

20 25 30

Ala Glu Arg Met Gln Asp Val Ser Ser Glu Gln His Pro Leu Tyr Asp
35 40 45

Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ser Gly Cys Ile Pro Cys
50 55 60

Cys
65

<210> 115
<211> 13
<212> PRT
<213> Conus laterculatus

<220>
<221> PEPTIDE
<222> (1)..(13)
<223> Xaa at residue 5 and 11 is Pro or Hyp; Xaa at residue 4 is Trp or
bromo-Trp

<400> 115
Cys Cys Asp Xaa Xaa Cys Ser Gly Cys Ile Xaa Cys Cys
1 5 10

<210> 116
<211> 313
<212> DNA
<213> Conus laterculatus

<400> 116
cgacctcaag aaggatcgat agcagttcat gatgtctaaa ctgggagtct tgttgaccat 60
ctgtctgctt ctgtttcccc ttactgctct ggatggagat caacctgcag accgacttgc 120
agagcgtatg caggacgaca tttcatctga gcagcatccc tttgaaaaga gacgagactg 180
ttgcacacct ccgaagaaat gcagagaccg acaatgcaaa cctgcacggt gttgcggagg 240
ataacgtggt gatgaccaac tttgttatca cggctacgtc aagtgtctag tgaataagta 300
aaacgattgc agt 313

<210> 117
<211> 71
<212> PRT
<213> Conus laterculatus

<400> 117
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Asp Gly Asp Gln Pro Ala Asp Arg Leu Ala Glu
20 25 30
Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Glu Lys Arg
35 40 45
Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
50 55 60
Pro Ala Arg Cys Cys Gly Gly
65 70

<210> 118
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 6, 17 and 17 is Pro or Hyp

<400> 118
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Arg Asp Arg Gln Cys Lys
 1 5 10 15

Xaa Ala Arg Cys Cys Gly
 20

<210> 119
 <211> 314
 <212> DNA
 <213> Conus laterculatus

<400> 119
 gggatcgata gcagttcatg atgtctaaac tgggagtctt gttgaccatc tgtctgcttc 60
 tgtttccctt tactgctctt ccgatggatg gagatcaact tgcacgccga tctgcagagc 120
 gtatgcagga caacatttca tctgagcagc atcacctctt tgaaaagaga cgaccacat 180
 gttgcaccta tgacgggagt tgcctaaaag aatcatgcat gcgtaaagct tgttgcggat 240
 gataacgtgt tgatgaccaa ctttgttatt acggctactc aagtgtctaa tgaataagta 300
 aaatgattgc agta 314

<210> 120
 <211> 74
 <212> PRT
 <213> Conus laterculatus

<400> 120
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Arg Arg Ser
 20 25 30

Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His His Leu Phe
 35 40 45

Glu Lys Arg Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys
 50 55 60

Glu Ser Cys Met Arg Lys Ala Cys Cys Gly
 65 70

<210> 121
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 a

nd 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 121

Arg Xaa Xaa Cys Cys Thr Xaa Asp Gly Ser Cys Leu Lys Xaa Ser Cys
1 5 10 15

Met Arg Lys Ala Cys Cys
20

<210> 122

<211> 314

<212> DNA

<213> Conus laterculatus

<400> 122

gggatcgata gcagttcatg atgtctaaac tgggagtctt gttgaccacc tgtctgcttc 60
tgtttccct tactgctctt ccgatggatg gagatcaact tgcacgccga cctgcagagc 120
gtatgcagga caacatttca tctgagcagc atcccttctt tgaaaggaga cgaccacat 180
gttgaccta tgacgggagt tgcctaaaag aatcatgcaa gcgtaaagct tgttgcggat 240
aataacgtgt tgatgaccaa ctttggtatc acggctactc aagtgtctaa tgaataagta 300
aaatgattgc agta 314

<210> 123

<211> 74

<212> PRT

<213> Conus laterculatus

<400> 123

Met Met Ser Lys Leu Gly Val Leu Leu Thr Thr Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Arg Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45

Glu Arg Arg Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys
50 55 60

Glu Ser Cys Lys Arg Lys Ala Cys Cys Gly
65 70

<210> 124

<211> 22

<212> PRT

<213> Conus laterculatus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 3 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 124

Arg Xaa Xaa Cys Cys Thr Xaa Asp Gly Ser Cys Leu Lys Xaa Ser Cys
1 5 10 15

Lys Arg Lys Ala Cys Cys

20

<210> 125
 <211> 247
 <212> DNA
 <213> Conus leopardus

<400> 125
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc ggctggtttg agatcaacct gcagagcgac ctgcaaagcg tacgcaggac 120
 gacattccag atggacagca tccgttaaata gataggcaga taaactgttg cccgtggcca 180
 tgccctagta catgccgcca tcaatgctgc cattaatgat aacgtgttga tgaccaactt 240
 tctcgag 247

<210> 126
 <211> 71
 <212> PRT
 <213> Conus leopardus

<400> 126
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Gly Asp Gln Pro Ala Glu
 20 25 30
 Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asp Gly Gln His Pro
 35 40 45
 Leu Asn Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Ser Thr
 50 55 60
 Cys Arg His Gln Cys Cys His
 65 70

<210> 127
 <211> 19
 <212> PRT
 <213> Conus leopardus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp

<400> 127
 Xaa Ile Asn Cys Cys Xaa Xaa Xaa Cys Xaa Ser Thr Cys Arg His Gln
 1 5 10 15

Cys Cys His

<210> 128
 <211> 244
 <212> DNA
 <213> Conus lividus

<400> 128
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt 60
 actgctcttc ggctggtttag agatcaacct gcagagcgac ctgcaaagcg tacgcaggac 120

gacattccaa atggacagga tccgttaatt gataggcaga taaattgttg cccttggcca 180
 tgccctgatt catgccacta tcaatgctgc cactgataac gtgttgatga ccaactttct 240
 cgag 244

<210> 129
 <211> 71
 <212> PRT
 <213> Conus lividus

<400> 129
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Arg Leu Val Arg Asp Gln Pro Ala Glu
 20 25 30
 Arg Pro Ala Lys Arg Thr Gln Asp Asp Ile Pro Asn Gly Gln Asp Pro
 35 40 45
 Leu Ile Asp Arg Gln Ile Asn Cys Cys Pro Trp Pro Cys Pro Asp Ser
 50 55 60
 Cys His Tyr Gln Cys Cys His
 65 70

<210> 130
 <211> 19
 <212> PRT
 <213> Conus lividus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6, 8 and 10 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp; Xaa at residue 15 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 130
 Xaa Ile Asn Cys Cys Xaa Xaa Xaa Cys Xaa Asp Ser Cys His Xaa Gln
 1 5 10 15

Cys Cys His

<210> 131
 <211> 275
 <212> DNA
 <213> Conus lynceus

<400> 131
 aaggatcgat agcagttcat gatgtctaaa ctgggagtct tgttgaccat ctgtctgctt 60
 ctgtttcccc ttactgctct tccgatggat ggagatcaat ctgcagaccg acttgacagag 120
 cgtatgcagg acaacatttc atctgagcag catcccttct ttgaaaagag aggacgagac 180
 tgttgcacac ctccgaggaa atgcagagac cgagcctgca aacctcaacg ttgttgcgga 240
 ggataagctg ttgatgacca actttgttat acggc 275

<210> 132
 <211> 75

<212> PRT

<213> Conus lynceus

<400> 132

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Ser Ala Asp Arg Leu
 20 25 30

Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Glu Lys Arg Gly Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Arg Asp
 50 55 60

Arg Ala Cys Lys Pro Gln Arg Cys Cys Gly Gly
 65 70 75

<210> 133

<211> 23

<212> PRT

<213> Conus lynceus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 7, 8 and 18 is Pro or Hyp

<400> 133

Gly Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Arg Asp Arg Ala Cys
 1 5 10 15

Lys Xaa Gln Arg Cys Cys Gly
 20

<210> 134

<211> 803

<212> DNA

<213> Conus magus

<400> 134

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccgat ggatggagat gaacctgcaa accgacctgt 120
 cgagcgtatg caggacaaca tttcatctga gcagtatccc ttgtttgaga agagacgaga 180
 ttgtttgcact cgcgcaaga aatgcaaaga cgcacaatgc aaacccaga gatgttgccg 240
 tggacgataa cgtgttgatg accaacttta tcacggctac gtcaagtgtt tagtgaataa 300
 gtaaaatgat tgcagtcttg ctacagatttg cttttgtgtt ttggtctaaa gatcaatgac 360
 caaacggttg ttttgatgcg gattgtcata tttttctcga ttccaatcca aactagatg 420
 attaatcac gatagattaa ttttctatca atgccttgat ttttcgtctg tcatatcagt 480
 tttgtttata tttatTTTTT cgctactgtc tacacaaacg catgcatgca cgcacgcacg 540
 cacacacgca cgcacgctcg cacaaacatg cgcgcgacg cacacacaca cacacacaca 600
 caaacacaca cacgaagcaa tcacacaatt agttgacatt atttatttat tcattgatgt 660
 atttgttatt cgtttgcttg tttttagaat agtttgaggc cgtctttttg gatttatttg 720

aactgcttta ttgtatacga gtacttcgtg cggggaaaca ctgctgaaaa taaaacaaac 780
actgacgtag caaaaaaaaaa aaa 803

<210> 135
<211> 75
<212> PRT
<213> Conus magus

<400> 135
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asn Arg Pro
20 25 30
Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45
Glu Lys Arg Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg
50 55 60
Gln Cys Lys Pro Gln Arg Cys Cys Ala Gly Arg
65 70 75

<210> 136
<211> 22
<212> PRT
<213> Conus magus

<220>
<221> PEPTIDE
<222> (1)..(22)
<223> Xaa at residue 6 and 7 is Pro or Hyp

<400> 136
Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
1 5 10 15
Xaa Gln Arg Cys Cys Ala
20

<210> 137
<211> 656
<212> DNA
<213> Conus magus

<400> 137
caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata tgagaaaaag 180
gtgttgcggc cccggcggtt catgccccgt atatttcaga gacaatttta tttgtggttg 240
ttgttaaata acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtattttg gtctaaagat 360
caatgaccaa accgttggtt tgggtgtggat tttcatatat ttctcgagtc ctatccaaca 420
ctagatgatt taatcacgat agatctgatt ttttatcaa aggcttggtt tttcgtctgt 480

cacatcagtt ttgtttatat ttaatttttc gtcactgatt acacacacgc atgaacgcac 540
 agagtactaa cacatacaca cacacacaca cacacacaca cacacacaca cacacacaca 600
 cacacacaca cagcgcgcgcg cgcgggcgcca tctagtagcg ccgcgacgac acacac 656

<210> 138
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 138
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Met Arg Lys Arg Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60
 Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 139
 <211> 21
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 4 and 9 is Pro or Hyp; Xaa at residue is 11 Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 139
 Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp Asn Phe
 1 5 10 15
 Ile Cys Gly Cys Cys
 20

<210> 140
 <211> 594
 <212> DNA
 <213> Conus magus

<400> 140
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgttt 60
 gcttctgttt ccccttactg ctcttccgag ggatggagat caatctgtag accgacctgc 120
 agagcgtatg caggacgaca tttcatctga gctgcatccc ttgtcaatca gaaaaagaat 180
 gtgttgcggc gagagtgcgc catgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccacc ttcgttatca cgactaatga taagtaaaat 300
 gattgcagtc tcgctcagat ttgcttttgt attttggctt aaagatcaat gaccaaaccg 360
 ttgttttgat gtggattttc atatatttct cgagtcctat ccaacactag atgatttaat 420

cacgatagat ctgatttttt tatcaaagcc ttggtttttc gtctgtcaca tcagttttgt 480
 ttatatatttaa tttttcgtca ctgattacac acacgcatga acgcacagac gtactaacac 540
 atacacacac acacacacac acacacacac acacacacac acacacacac acac 594

<210> 141
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 141
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Arg Asp Gly Asp Gln Ser Val Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Leu His Pro Leu Ser
 35 40 45
 Ile Arg Lys Arg Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr
 50 55 60
 Phe Arg Asn Ser Gln Ile Cys His Cys Cys
 65 70

<210> 142
 <211> 22
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and 10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 142
 Met Cys Cys Gly Xaa Ser Ala Xaa Cys Xaa Ser Xaa Phe Arg Asn Ser
 1 5 10 15
 Gln Ile Cys His Cys Cys
 20

<210> 143
 <211> 501
 <212> DNA
 <213> Conus magus

<400> 143
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacaaaa 180
 gtgttgccgc cccggcgggt catgccccgt atatttcaca gacaatttta tttgtggttg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcattatca cgactacgcc aagtgtctaa 300
 tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtatttgg tctaaagatc 360

aatgaccaaa ccgttgtttt ggtgctggat tttcatatat ttctcgattc ctatccaaca 420
 ctagatgatt taatcacgat agatctgatt tttttatcaa tgccttaatt ttttgctctg 480
 tcatatcagt tttgtttata t 501

<210> 144
 <211> 74
 <212> PRT
 <213> Conus magus

<400> 144
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45
 Asp Lys Arg Gln Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
 50 55 60
 Phe Thr Asp Asn Phe Ile Cys Gly Cys Cys
 65 70

<210> 145
 <211> 23
 <212> PRT
 <213> Conus magus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
 ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
 iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 145
 Xaa Lys Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Thr Asp
 1 5 10 15
 Asn Phe Ile Cys Gly Cys Cys
 20

<210> 146
 <211> 454
 <212> DNA
 <213> Conus magus

<400> 146
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caacctgcag accaacctgc 120
 agatcgtatg caggacgaca tttcatctga gcagtatccc ttgtttgata agagacaaaa 180
 gtgttgcggc cccggcggtt catgccccgt atatttcaga gacaatttta tttgtggttg 240
 ttgttaaagt acaacgtgtc gatgaccatc ttcattatca cgactacgcc aagtgtctaa 300
 tgaataaata aaatgattgc agtctcgctc agatttgctt ttgtattttg gtctaaagat 360
 caatgaccaa accgttgttt tgggtgtggat tttcatatat ttctcgattc ctatccaaca 420

ctagatgatt taatcacgat agatctgatt tttt

454

<210> 147

<211> 74

<212> PRT

<213> Conus magus

<400> 147

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
35 40 45

Asp Lys Arg Gln Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr
50 55 60

Phe Arg Asp Asn Phe Ile Cys Gly Cys Cys
65 70

<210> 148

<211> 23

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 148

Xaa Lys Cys Cys Gly Xaa Gly Gly Ser Cys Xaa Val Xaa Phe Arg Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 149

<211> 22

<212> PRT

<213> Conus magus

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 10 and 20 is
Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 149

Xaa Lys Cys Cys Ser Gly Gly Ser Cys Xaa Leu Xaa Phe Arg Asp Arg
1 5 10 15

Leu Ile Cys Xaa Cys Cys
20

<210> 150

<211> 19

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> Xaa at residue 16 is Pro or Hyp

<400> 150

Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
1 5 10 15

Cys Cys Asn

<210> 151

<211> 321

<212> DNA

<213> Conus marmoreus

<400> 151

caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
gcttctgttt cccgttactg ctcttccgat ggatgggtgat caacctgcag accgacttgt 120
agagcgtatg caggacaaca ttcatctga gcagcatccc ttctttgaaa agagaagagg 180
aggctgttgc acacctccga ggaaatgcaa agaccgagcc tgcaaacctg cacgttgctg 240
cggcccagga taacgtgttg atgaccaact ttgttatcac ggctacgtca agtgtctagt 300
gaataagtaa aacgattgca g 321

<210> 152

<211> 76

<212> PRT

<213> Conus marmoreus

<400> 152

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65 70 75

<210> 153

<211> 24

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 3, 8, 18 and 24 is Pro or Hyp

<400> 153

Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
1 5 10 15

Lys Xaa Ala Arg Cys Cys Gly Xaa
20

<210> 154
<211> 296
<212> DNA
<213> Conus marmoreus

<400> 154
gagctcggtaccgacctc aagagggatc gatagcagtt catgatgtct aaactgggaa 60
tcttggtgac catctgtcta cttctatttc cccttactgc tgttccgctg gatggagatc 120
aacctgcaga cgcacctgca gagcgtatgc aggacgacat ttcattctgaa catcatccct 180
tttttgatcc cgtcaaacgg tgttgcaggt tatcatgcgg cctgggatgc cacccttggt 240
gtggatgacc agctttgtta tcgcggcctc atcaagtgtc taatgaataa gtaaaa 296

<210> 155
<211> 68
<212> PRT
<213> Conus marmoreus

<400> 155
Met Met Ser Lys Leu Gly Ile Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30
Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His His Pro Phe Phe
35 40 45
Asp Pro Val Lys Arg Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His
50 55 60
Pro Cys Cys Gly
65

<210> 156
<211> 14
<212> PRT
<213> Conus marmoreus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 12 is Pro or Hyp

<400> 156
Cys Cys Arg Leu Ser Cys Gly Leu Gly Cys His Xaa Cys Cys
1 5 10

<210> 157
<211> 355
<212> DNA
<213> Conus marmoreus

<400> 157
ggcctacacc aagcttgcat gcctgcaggt cgactctaga ggatccccga tcgatagcag 60
ttcatgatgt ctagactggg agtcttggtg accatctgtc tacttctgtt tccccttact 120

gctgttccgc tggatggaga tcaacctgcg gaccgacctg cagagcgcct gcaggacgac 180
 atttcatctg aacatcatcc ccattttgat tccggcagag agtggtgcgg ttcgttcgca 240
 tgccgctttg gatgcgtgcc ttgttgtgta tgaccagctt tgttatcacg gcctcatcga 300
 gtgtctaata aataagtaaa acgattgcag taggcgggta ccgagctcga attcc 355

<210> 158
 <211> 69
 <212> PRT
 <213> Conus marmoreus

<400> 158
 Met Met Ser Arg Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Asp Ile Ser Ser Glu His His Pro His Phe
 35 40 45
 Asp Ser Gly Arg Glu Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys
 50 55 60
 Val Pro Cys Cys Val
 65

<210> 159
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 1 is Glu or gamma-carboxy Glu; Xaa at residue 14 is Pro or Hyp

<400> 159
 Xaa Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15
 Val

<210> 160
 <211> 295
 <212> DNA
 <213> Conus marmoreus

<400> 160
 cgacctcaag agggatcgat agcagttcat gatgtctaaa ctgggagtct tgttgacat 60
 ctgtctactt ctatttcccc ttactgctgt tccgctggat ggagaccaac ctgcagaccg 120
 acctgcagag cgtatgcagg acgacatttc atctgaacgt catccttttt ttgatcgag 180
 caaacagtgt tgccatctgc cggcatgccg cttcggatgt acgccttggt gttggtgatc 240
 agctttgtta tcgcgtcttc atcaagtgtc taatgaataa gtaaaatgat tgcag 295

<210> 161
 <211> 67
 <212> PRT

<213> Conus marmoreus

<400> 161

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Phe Phe Asp Arg
35 40 45

Ser Lys Gln Cys Cys His Leu Pro Ala Cys Arg Phe Gly Cys Thr Pro
50 55 60

Cys Cys Trp
65

<210> 162

<211> 19

<212> PRT

<213> Conus marmoreus

<220>

<221> PEPTIDE

<222> (1)..(19)

<223> Xaa at residue 8 and 16 is Pro or Hyp; Xaa at residue 19 is Trp o
r bromo-Trp

<400> 162

Ser Lys Gln Cys Cys His Leu Xaa Ala Cys Arg Phe Gly Cys Thr Xaa
1 5 10 15

Cys Cys Xaa

<210> 163

<211> 235

<212> DNA

<213> Conus marmoreus

<400> 163

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60

actgctcttc cgctggatgg agatcaacct gcagaccaac gtgcagagcg tacgcaggcc 120

gagaagcatt ccttgccctga tccgagaatg ggctgttgcc cgtttccatg caaaaccagt 180

tgactacttt tgtgttgccg gtgatgataa cgtgttgatg accaactttc tcgag 235

<210> 164

<211> 67

<212> PRT

<213> Conus marmoreus

<400> 164

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

Gln Arg Ala Glu Arg Thr Gln Ala Glu Lys His Ser Leu Pro Asp Pro
35 40 45

Arg Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu

50 55 60

Cys Cys Gly
65

<210> 165
<211> 17
<212> PRT
<213> Conus marmoreus

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 5 and 7 is Pro or Hyp

<400> 165
Met Gly Cys Cys Xaa Phe Xaa Cys Lys Thr Ser Cys Thr Thr Leu Cys
1 5 10 15

Cys

<210> 166
<211> 16
<212> PRT
<213> Conus marmoreus

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 4 and 6 is Trp or bromo-Trp

<400> 166
Cys Cys His Xaa Asn Xaa Cys Asp His Leu Cys Ser Cys Cys Gly Ser
1 5 10 15

<210> 167
<211> 357
<212> DNA
<213> Conus marmoreus

<400> 167
gccaaagcttg catgcctgca ggatgactct agaggatccc cacctcaaga gggatcgata 60
gcagttcatg atgtctaaac tgggagtctt gttgaccatc tgtctacttc tgtttgccct 120
tactgctggt cgcgtggatg gagatcaacc tgcagaccga cctgcagaac gtatgcagga 180
cgacatttca tctgaacgtc atcccatggt tgatgccgtc agagattggt gcccgttgcc 240
ggcatgcccc tttggatgca acccttggtg tggatgacca gctttgttat cgggacctca 300
tcaagtgtct aatgaataag taaaaaacga ttcgagtggg taccgagctc gaattcc 357

<210> 168
<211> 67
<212> PRT
<213> Conus marmoreus

<400> 168
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15
Ala Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

50

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser His Pro Met Phe Asp Ala
 35 40 45

Val Arg Asp Cys Cys Pro Leu Pro Ala Cys Pro Phe Gly Cys Asn Pro
 50 55 60

Cys Cys Gly
 65

<210> 169
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 6, 9 and 14 is Pro or Hyp
 <400> 169
 Asp Cys Cys Xaa Leu Xaa Ala Cys Xaa Phe Gly Cys Asn Xaa Cys Cys
 1 5 10 15

<210> 170
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 170
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 171
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 171

Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 172
 <211> 16
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 172
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 173
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Pro or Hyp

<400> 173
 Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys
 1 5 10 15

Val

<210> 174
 <211> 244
 <212> DNA
 <213> Conus nobilis

<400> 174
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgctcttc cgctggatga agatcaaccg gtacaccgac ctgcagagcg tatgcaggac 120
 atttcatctg atcaacatct cttctttgat ctcataaac ggtgctgcga gttgccatgc 180
 gggccaggct tttgcgtccc ttgttgctga catcaataac gtgttgatga ccaactttct 240
 cgag 244

<210> 175
 <211> 69
 <212> PRT
 <213> Conus nobilis

<400> 175
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Val His
 20 25 30
 Arg Pro Ala Glu Arg Met Gln Asp Ile Ser Ser Asp Gln His Leu Phe
 35 40 45
 Phe Asp Leu Ile Lys Arg Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe
 50 55 60
 Cys Val Pro Cys Cys
 65

<210> 176
 <211> 15
 <212> PRT
 <213> Conus nobilis

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5, 8
 adn 13 is Pro or Hyp
 <400> 176

Cys Cys Xaa Leu Xaa Cys Gly Xaa Gly Phe Cys Val Xaa Cys Cys
 1 5 10 15

<210> 177
 <211> 262
 <212> DNA
 <213> Conus nobilis

<400> 177
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
 actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
 gacatttcat ctgagcagta tcccttggtt gataagagac aaaagtgttg cactgggaag 180
 aaggggtcat gctccggcaa agcatgcaaa aatctcaaat gttgctctgg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 178
 <211> 78
 <212> PRT
 <213> Conus nobilis

<400> 178
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Gln Pro Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro
 35 40 45
 Leu Phe Asp Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys
 50 55 60
 Ser Gly Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 179
 <211> 23
 <212> PRT
 <213> Conus nobilis

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 179
 Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 180
 <211> 238
 <212> DNA
 <213> Conus pulicarius

<400> 180
 ggatccatga tgtctaaact gggagttttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120

attgcaactg aacagcatcc cttctttgat cccgtcaaac ggtgttgcaa cagctgttac 180

atgggatgca tcccttggtg cttctagtaa taacgtgttg atgaccaact ttctcgag 238

<210> 181

<211> 68

<212> PRT

<213> Conus pulicarius

<400> 181

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

Arg Pro Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Phe
35 40 45

Phe Asp Pro Val Lys Arg Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile
50 55 60

Pro Cys Cys Phe
65

<210> 182

<211> 14

<212> PRT

<213> Conus pulicarius

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 5 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 182

Cys Cys Asn Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
1 5 10

<210> 183

<211> 238

<212> DNA

<213> Conus quercinus

<400> 183

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60

acagctcttc agctggatgg agatcaacct gcagaccgac ctgcagagcg tacgcaggac 120

attgcatctg aacagtatcg aaagtttgat cagagacaga ggtgttgcca gtggccatgc 180

cccggtagtt gcagatgctg ccgtactggt taacgtgttg atgaccaact ttctcgag 238

<210> 184

<211> 70

<212> PRT

<213> Conus quercinus

<400> 184

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp

20 25 30

Arg Pro Ala Glu Arg Thr Gln Asp Ile Ala Ser Glu Gln Tyr Arg Lys
35 40 45

Phe Asp Gln Arg Gln Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys
50 55 60

Arg Cys Cys Arg Thr Gly
65 70

<210> 185
<211> 17
<212> PRT
<213> Conus quercinus

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pro or Hyp; Xaa at residue 6 is Trp or bromo-Trp

<400> 185
Xaa Arg Cys Cys Gln Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
1 5 10 15

Thr

<210> 186
<211> 15
<212> PRT
<213> Conus quercinus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 186
Cys Cys Ser Gln Asp Cys Leu Val Cys Ile Xaa Cys Cys Xaa Asn
1 5 10 15

<210> 187
<211> 15
<212> PRT
<213> Conus quercinus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 11 14 is Pro or Hyp; Xaa at residue 7 is Trp or bromo-Trp

<400> 187
Cys Cys Ser Arg His Cys Xaa Val Cys Ile Xaa Cys Cys Xaa Asn
1 5 10 15

<210> 188
<211> 323
<212> DNA
<213> Conus radiatus

<400> 188
tcaagaagga tcgatagcag ttcatgatgt ctacttggtg accatctgtc 60

tgcttctggtt tccccttact gctcttccga tggatggaga tcaacctgta gaccgacttg 120
 cagagcgtat gcaggacaac atttcatctg agcagcatac cttctttgaa aagagactac 180
 catcgtggtt ctcctttaac ttgcggcttt gcccagtacc agcatgcaaa cgtaaccctt 240
 gttgcacagg ataacgtggt gatgaccaac tttgttatca cggctacgtc aagtgtctag 300
 tgaataagta aaacgattgc agt 323

<210> 189
 <211> 76
 <212> PRT
 <213> Conus radiatus

<400> 189
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Val Asp Arg Leu
 20 25 30
 Ala Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Thr Phe Phe
 35 40 45
 Glu Lys Arg Leu Pro Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Pro
 50 55 60
 Val Pro Ala Cys Lys Arg Asn Pro Cys Cys Thr Gly
 65 70 75

<210> 190
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 2, 13, 15 and 21 is Pro or Hyp

<400> 190
 Leu Xaa Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Xaa Val Xaa Ala
 1 5 10 15

Cys Lys Arg Asn Xaa Cys Cys Thr
 20

<210> 191
 <211> 336
 <212> DNA
 <213> Conus radiatus

<400> 191
 aggtcgactc tagaggatcc ccaaggatcg atagcagttc atgatgtcta aactgggagt 60
 cttgttgacc atctgtctgc ttctgtttcc cttactgct cttccgatgg atggagatca 120
 acctgcagac cgacttgcag agcgtatgca ggacgacatt tcactctgagc agcatccctt 180
 ctttaaaaag agacaacaaa gatgttgac cgtaagagg atttgtccag taccagcatg 240
 cagaagtaaa cttgttgca aatcataacg tattgatgac caactttggt atcacggcta 300
 cgtcaagtgt ctagtgaata agtaaaatga ttgcag 336

<210> 192
 <211> 75
 <212> PRT
 <213> Conus radiatus

<400> 192
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Lys Lys Arg Gln Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Pro Val
 50 55 60
 Pro Ala Cys Arg Ser Lys Pro Cys Cys Lys Ser
 65 70 75

<210> 193
 <211> 24
 <212> PRT
 <213> Conus radiatus

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12, 14 and 20
 is Pro or Hyp

<400> 193
 Xaa Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
 1 5 10 15
 Arg Ser Lys Xaa Cys Cys Lys Ser
 20

<210> 194
 <211> 326
 <212> DNA
 <213> Conus radiatus

<400> 194
 acctcaagaa ggatcgatag cagttcatga tgtctaaact gggagtcttg ttgaccatct 60
 gtctgcttct gtttcccggt actgctcttc cgatggatgg tgatcaacct gcagaccgac 120
 ttgtagagcg tatgcaggac aacatttcac ctgagcagca tcccttcttt gaaaagagaa 180
 gaggaggctg ttgcacacct ccgaggaaat gcaaagaccg agcctgcaaa cctgcacggt 240
 gctgcggccc aggataacgt gttgatgacc aactttgtta tcacggctac gtcaagtgtc 300
 tagtgaataa gtaaaacgat tgcagt 326

<210> 195
 <211> 76
 <212> PRT
 <213> Conus radiatus

<400> 195
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Val Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
35 40 45

Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp
50 55 60

Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
65 70 75

<210> 196

<211> 24

<212> PRT

<213> Conus radiatus

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 196

Arg Gly Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys
1 5 10 15

Lys Xaa Ala Arg Cys Cys Gly Xaa
20

<210> 197

<211> 238

<212> DNA

<213> Conus rattus

<400> 197

ggatccatga tgtctaaact gggagtcttg gtgaccatct gcctgcttct gttccctctt 60

gctgcttttc cactggatgg agatcaacct gcagaccacc ctgcaaagcg tacgcaagat 120

gacagttcag ctgccctgat caatgcctgg cttgatgaat cccagacttg ctgcagtaac 180

tgcggtgaag attgtgatgg ttgttgccag taacgtgttg atgaccaact ttctcgag 238

<210> 198

<211> 70

<212> PRT

<213> Conus rattus

<400> 198

Gly Ser Met Met Ser Lys Leu Gly Val Leu Val Thr Ile Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Ala Ala Phe Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

His Pro Ala Lys Arg Thr Gln Asp Asp Ser Ser Ala Ala Leu Ile Asn
35 40 45

Ala Trp Leu Asp Glu Ser Gln Thr Cys Cys Ser Asn Cys Gly Glu Asp
50 55 60

Cys Asp Gly Cys Cys Gln
65 70

<210> 199
 <211> 16
 <212> PRT
 <213> Conus rattus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 9 is Glu or gamma-carboxy Glu
 <400> 199
 Xaa Thr Cys Cys Ser Asn Cys Gly Xaa Asp Cys Asp Gly Cys Cys Gln
 1 5 10 15

<210> 200
 <211> 327
 <212> DNA
 <213> Conus stercusmuscarum

<400> 200
 gacctcaaga gggatcgata gcagttcgtg atgtctaaac tgggagtctt gttgaccatc 60
 tgtctgcttc tgtttcctct tactgctctt ccgatggatg gagatcaacc tgcagaccaa 120
 cctgcagatc gtatgcagga cgacatttca tctgagcagt atcccttggt tgataagaga 180
 caaaagtgtt gcaactgggaa gaaggggtca tgctccggca aagcatgcaa aaatctcaaa 240
 tgttgctctg gacgataacg tgttgatgac caactttggt atcacggcta cgtcaagtgt 300
 ctaatgaata agtaaaacga ttgcagt 327

<210> 201
 <211> 75
 <212> PRT
 <213> Conus stercusmuscarum

<400> 201
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro Ala
 20 25 30
 Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe Asp
 35 40 45
 Lys Arg Gln Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys
 50 55 60
 Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 202
 <211> 23
 <212> PRT
 <213> Conus stercusmuscarum

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 202
 Xaa Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys

1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 203
<211> 316
<212> DNA
<213> Conus stercusmuscarum
<400> 203
gatcgatagc agttcgtgat gtctaaactg ggagtccttgt tgaccatctg tctgcttctg 60
tttcccttta ctgctcttcc gatggatgga gatcaacctg cagaccaacc tgcagatcgt 120
atgcagaacg acatttcatc tgagcagtat cccttggttg ataagagaca aaagtgttgc 180
ggccccggcg cgtcatgccc cagatatctc aaagacaatt ttatttggtg ttgttggttaa 240
atgacaacgt gtcgatgacc aacttcgtta tcacgacttc gccaaagtgtc taatgaataa 300
gtaaaacgat tgcagt 316

<210> 204
<211> 73
<212> PRT
<213> Conus stercusmuscarum
<400> 204
Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
1 5 10 15
Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro Ala
20 25 30
Asp Arg Met Gln Asn Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe Asp
35 40 45
Lys Arg Gln Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe
50 55 60
Lys Asp Asn Phe Ile Cys Gly Cys Cys
65 70

<210> 205
<211> 23
<212> PRT
<213> Conus stercusmuscarum
<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 and 11 is P
ro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-
iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr
<400> 205
Xaa Lys Cys Cys Gly Xaa Gly Ala Ser Cys Xaa Arg Xaa Phe Lys Asp
1 5 10 15
Asn Phe Ile Cys Gly Cys Cys
20

<210> 206
<211> 331
<212> DNA

<213> Conus striatus

<400> 206

```
cgacctttca agagggatcg atagcagttc gcgatgtcta aactgggggt attgttgacc      60
atctgtctgc ttctgtttcc ccttactget cttccgatgg atgaagatca acctgcagac      120
caacttgaag atcgtatgca ggacgacatt tcattctgagc agtatccctc`gtttgttagg      180
agacaaaagt gttgcggcga aggtctgtca tgcccaaat atttcaaaaa caattttatt      240
tgtggttggt gttaaatagac aacgtgtcga tgaccaactt cgttatcacg actacgccaa      300
gtgtcttgtc taatgataat aaaatgattc c                                     331
```

<210> 207

<211> 73

<212> PRT

<213> Conus striatus

<400> 207

```
Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
1          5          10          15
Leu Thr Ala Leu Pro Met Asp Glu Asp Gln Pro Ala Asp Gln Leu Glu
20          25          30
Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Ser Phe Val
35          40          45
Arg Arg Gln Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe
50          55          60
Lys Asn Asn Phe Ile Cys Gly Cys Cys
65          70
```

<210> 208

<211> 23

<212> PRT

<213> Conus striatus

<220>

<221> PEPTIDE

<222> (1)..(23)

<223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp; Xaa at residue 13 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 208

```
Xaa Lys Cys Cys Gly Xaa Gly Ser Ser Cys Xaa Lys Xaa Phe Lys Asn
1          5          10          15
```

```
Asn Phe Ile Cys Gly Cys Cys
20
```

<210> 209

<211> 256

<212> DNA

<213> Conus striatus

<400> 209

```
ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtttcccctt      60
actgctcttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac      120
```

gacatttcat ctgacgagca tcccttggtt gataagagac aaaactgttg caatggggga 180
 tgctccagca aatggtgcag agatcacgca cgttggtgcg gtcgatgata acgtgttgat 240
 gaccaacttt ctcgag 256

<210> 210
 <211> 75
 <212> PRT
 <213> Conus striatus

<400> 210
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Arg Pro Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Asp Glu His Pro
 35 40 45
 Leu Phe Asp Lys Arg Gln Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys
 50 55 60
 Trp Cys Arg Asp His Ala Arg Cys Cys Gly Arg
 65 70 75

<210> 211
 <211> 20
 <212> PRT
 <213> Conus striatus

<220>
 <221> PEPTIDE
 <222> (1)..(20)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 12 is Trp or
 bromo-Trp

<400> 211
 Xaa Asn Cys Cys Asn Gly Gly Cys Ser Ser Lys Xaa Cys Arg Asp His
 1 5 10 15
 Ala Arg Cys Cys
 20

<210> 212
 <211> 235
 <212> DNA
 <213> Conus tessulatus

<400> 212
 ggatccatga tgtctaaact gggagtcttg ttgacatgt gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg taggcaggac 120
 attgcaactg acgatcatcc tttgtttgat cccgtcaaac ggtgctgcca caaatgctat 180
 atgggatgca tcccttggtg catttagtaa cgtgttgatg accaactttc tcgag 235

<210> 213
 <211> 68
 <212> PRT
 <213> Conus tessulatus

<400> 213

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Met Cys Leu Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

Arg Pro Ala Glu Arg Arg Gln Asp Ile Ala Thr Asp Asp His Pro Leu
35 40 45

Phe Asp Pro Val Lys Arg Cys Cys His Lys Cys Tyr Met Gly Cys Ile
50 55 60

Pro Cys Cys Ile
65

<210> 214

<211> 14

<212> PRT

<213> Conus tessulatus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 214

Cys Cys His Lys Cys Xaa Met Gly Cys Ile Xaa Cys Cys Ile
1 5 10

<210> 215

<211> 238

<212> DNA

<213> Conus tessulatus

<400> 215

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtgtgcttct gtttcccctt 60

actgctgttc cgctggatgg agatcaacct gcagaccaac ctgcagagcg tacgcagaac 120

gagcagcatc ccttgatatga tcagaaaaga aagtgttgcc ggccgcatg cgccatgagc 180

tgcggcatgg ctaggtgttg ctattaatga taacgtgttg atgaccaact ttctcgag 238

<210> 216

<211> 68

<212> PRT

<213> Conus tessulatus

<400> 216

Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Val Leu
1 5 10 15

Leu Phe Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp
20 25 30

Gln Pro Ala Glu Arg Thr Gln Asn Glu Gln His Pro Leu Tyr Asp Gln
35 40 45

Lys Arg Lys Cys Cys Arg Pro Pro Cys Ala Met Ser Cys Gly Met Ala
50 55 60

Arg Cys Cys Tyr
65

<210> 217
 <211> 18
 <212> PRT
 <213> Conus tessulatus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 5 and 6 is Pro or Hyp; Xaa at residue 18 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 217
 Lys Cys Cys Arg Xaa Xaa Cys Ala Met Ser Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Xaa

<210> 218
 <211> 564
 <212> DNA
 <213> Conus textile

<400> 218
 gagtcaaccc actgtcacgc caagagcggg cgccacagct aaggcaagaa ggatcgatag 60
 cagttcatga tgtctaaact gggagccttg ttgaccatct gtctacttct gttttccctt 120
 actgctgttc cgctggatgg agatcaacat gcagaccaac ctgcacagcg tctgcaggac 180
 cgcattccaa ctgaagatca tcccttattt gatcccaaca aacgggtgttg cccgcgggtg 240
 gcatgcaaca tgggatgcaa gccttgttgt ggatgaccag ctttgttatc gcgggtctcat 300
 gaagtgtcta atgaataagt aaaacgattg cagtttcggt cagatttgct gttgtatttt 360
 ggtctaaaga ttaatgacca aactgttctt ttgatccgga ttttcacgta tttctcgatt 420
 cctattcaac actagataag ttaatcacga cagatctgat tttccatcaa tgccttgctt 480
 tttggtctgt catataaatc ttgtttatat ttaatttctc gtcactttca acacgcacac 540
 acacacacac acacacgcgc gcgc 564

<210> 219
 <211> 69
 <212> PRT
 <213> Conus textile

<400> 219
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Gln Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
 35 40 45
 Asp Pro Asn Lys Arg Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys
 50 55 60
 Lys Pro Cys Cys Gly
 65

<210> 220
 <211> 16
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3, 4 and 13 is Pro or Hyp

<400> 220
 Cys Cys Xaa Xaa Val Ala Cys Asn Met Gly Cys Lys Xaa Cys Cys Gly
 1 5 10 15

<210> 221
 <211> 780
 <212> DNA
 <213> Conus textile

<400> 221
 ggatccagac gacaaagaag agtcaaccca ctgccacgtc aagagcagag cccacagcta 60
 agacaagaag gatcgatagc agttcatgat gtttaaactg ggagtcttgt tgaccatctg 120
 tctccttctg ttttccctta atgctgttcc gttggatgga gatcaacctg cagaccaacc 180
 tgcagagcgt ctgctggacg acatttcatt tgaaaataat cccttttatg atccccccaa 240
 acggtgttgc aggacttgc tcggttgac accttgttgt ggatgaccag cctcatcaag 300
 tgtctaacga ataagtaaag cgattgcagt ctcgttcaga tttacttttg tattctggtc 360
 taaagattaa tgaccaaact cttcttttga tccggatgta catatatttc tcgattccta 420
 tccaacgcta gataagctaa tcacgacaga tctgattttc tgtcaatgcc ttgctttttg 480
 gtctctcata tcaactcttgt ttatatattaa tttctcgtca ctatatatat atatacacac 540
 acacacacac ggaattccga ttgtccagta ccgttcttgg gatcgaggta ttgctgcgat 600
 ggcttattct gtactctttt cttctgcgct tgatagtgat gtcttctact cccatctgtg 660
 ctacccttgg cttgatcttt gataggcgtg tgcccttcac tggttataaa cccctctgat 720
 cctactctct ggacgcctcg ggggcccaac ctccaaataa agcgacatcc aatgaaaaaa 780

<210> 222
 <211> 66
 <212> PRT
 <213> Conus textile

<400> 222
 Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Asn Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Leu Asp Asp Ile Ser Phe Glu Asn Asn Pro Phe Tyr
 35 40 45
 Asp Pro Ala Lys Arg Cys Cys Arg Thr Cys Phe Gly Cys Thr Pro Cys
 50 55 60
 Cys Gly

65

<210> 223
 <211> 12
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa at residue 10 is Pro or Hyp

<400> 223
 Cys Cys Arg Thr Cys Phe Gly Cys Thr Xaa Cys Cys
 1 5 10

<210> 224
 <211> 456
 <212> DNA
 <213> Conus textile

<400> 224
 ggaacagtca accccacagc cacgccaaga gcagacagcc acagctacgt gaagaagggt 60
 ggagagaggt tcatgatggt gaaaatggga gtggtgctat tcatctttct ggtactgttt 120
 cccctggcaa cgctccagct ggatgcagat caacctgtag aacgatatgc ggagaacaaa 180
 cagctcctca acccagatga aaggagggaa atcctattgc ctgctctgag gaagttctgc 240
 tgtgattcga attggtgcc aatttcggat tgtgagtgc gctacggta gcgccgaaca 300
 tccatggcac tgtgctgggc ggtttcatcc caacaacgac agcgtttggt gatttcatgt 360
 atcattgcgc ccacgtctct tgtctaagaa tgacgaacat gattgcactc tggttcagat 420
 ttcgtgttct tttctgacaa taaatgacaa acctcc 456

<210> 225
 <211> 70
 <212> PRT
 <213> Conus textile

<400> 225
 Met Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe
 1 5 10 15
 Pro Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr
 20 25 30
 Ala Glu Asn Lys Gln Leu Leu Asn Pro Asp Glu Arg Arg Glu Ile Leu
 35 40 45
 Leu Pro Ala Leu Arg Lys Phe Cys Cys Asp Ser Asn Trp Cys His Asp
 50 55 60
 Cys Glu Cys Cys Tyr Gly
 65 70

<210> 226
 <211> 17
 <212> PRT
 <213> Conus textile

<220>

<221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 is Trp or bromo-Trp; Xaa at residue 17 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 226
 Phe Cys Cys Asp Ser Asn Xaa Cys His Ile Ser Asp Cys Xaa Cys Cys
 1 5 10 15

Xaa

<210> 227
 <211> 456
 <212> DNA
 <213> Conus textile

<220>
 <221> misc_feature
 <222> (1)..(456)
 <223> n may be any nucleotide

<400> 227
 caaggaacag tcaacccac agccacgcca agagcagaca gccacagcta cgtgaagaag 60
 ggtggagaga ggttcgtgat gttgaaaatg ggagtgggtgc tattcatctt cctggtactg 120
 tttcccctgg caacgctcca gctggatgca gatcaacctg tagaacgata tgcggagaaac 180
 aaacagctcc tcagcccaga tgaaaggagg gaaatcatat tgcattgctct ggggacgcga 240
 tgctgttctt gggatgtgtg cgaccacccg agttgtactt gctgcgggta gcgccgaaca 300
 tccatggcgc tgtgctgggc ggttttatcc caacaacgac agcgtttggt gatttcatgt 360
 atcattgcgc ccacgtctct tgtctaagaa tgacgaacat gattgcactc tggttcagat 420
 ttcgtgttct tttctgacaa taaatgacaa aacncc 456

<210> 228
 <211> 70
 <212> PRT
 <213> Conus textile

<400> 228
 Met Leu Lys Met Gly Val Val Leu Phe Ile Phe Leu Val Leu Phe Pro
 1 5 10 15
 Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Val Glu Arg Tyr Ala
 20 25 30
 Glu Asn Lys Gln Leu Leu Ser Pro Asp Glu Arg Arg Glu Ile Ile Leu
 35 40 45
 His Ala Leu Gly Thr Arg Cys Cys Ser Trp Asp Val Cys Asp His Pro
 50 55 60
 Ser Cys Thr Cys Cys Gly
 65 70

<210> 229
 <211> 15
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 10 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-
 -Trp

<400> 229
 Cys Cys Ser Xaa Asp Val Cys Asp His Xaa Ser Cys Thr Cys Cys
 1 5 10 15

<210> 230
 <211> 235
 <212> DNA
 <213> Conus textile

<400> 230
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaaccc gcagaccaag ctgcagagcg tatgcaggcc 120
 gagcagcatc ccttgtttga tcagaaaaga cggtgctgca agtttccatg ccccgatagt 180
 tgcagatatt tgtgttgccg gtgatgataa cgtgttgatg accaactttc tcgag 235

<210> 231
 <211> 67
 <212> PRT
 <213> Conus textile

<400> 231
 Gly Ser Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu
 1 5 10 15
 Leu Phe Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp
 20 25 30
 Gln Ala Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln
 35 40 45
 Lys Arg Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu
 50 55 60
 Cys Cys Gly
 65

<210> 232
 <211> 16
 <212> PRT
 <213> Conus textile

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 232
 Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Arg Xaa Leu Cys Cys
 1 5 10 15

<210> 233
 <211> 321
 <212> DNA

<213> Conus tulipa
 <400> 233
 cgacctcaag agggatcgat agcagttcat gtctaaactg ggagtcttgt tgacaatctg 60
 tctgcttctg tttcccctta ctgctctgcc gatggatgga gatgaacctg cagaccgacc 120
 tgcagagcgt atgcaggaca acatttcattc tgagcagcat cccttgtttg aggagagaca 180
 cggatgttgc aagggggcccg aaggatgctc ctccagagaa tgcagacccc aacattgttg 240
 cggtcgacga taacgtgttg agggccaact ttgttatcac ggctacgtca agtgtttagt 300
 gaataagtaa aatgattgca g 321

<210> 234
 <211> 74
 <212> PRT
 <213> Conus tulipa

<400> 234
 Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe Pro
 1 5 10 15
 Leu Thr Ala Leu Pro Met Asp Gly Asp Glu Pro Ala Asp Arg Pro Ala
 20 25 30
 Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Leu Phe Glu
 35 40 45
 Glu Arg His Gly Cys Cys Lys Gly Pro Glu Gly Cys Ser Ser Arg Glu
 50 55 60
 Cys Arg Pro Gln His Cys Cys Gly Arg Arg
 65 70

<210> 235
 <211> 21
 <212> PRT
 <213> Conus tulipa
 <220>
 <221> PEPTIDE
 <222> (1)..(21)
 <223> Xaa at residue 8 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hyp

<400> 235
 His Gly Cys Cys Lys Gly Xaa Xaa Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15
 Xaa Gln His Cys Cys
 20

<210> 236
 <211> 287
 <212> DNA
 <213> Conus figulinus

<400> 236
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
 gcttctgatt ccccttactg ctctttcgct ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggatggaa tttcatctga acagcatccc atgtttgatc ccgtcagacg 180

gtgttgcccg tggccatgca acataggatg cgtaccttgt tgttgatgac cagttttgtt 240

atcgcggcct catcaaagtgt ctaatgaata agtaaaacga ttgcagt 287

<210> 237

<211> 67

<212> PRT

<213> Conus figulinus

<400> 237

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Ile
1 5 10 15

Pro Leu Thr Ala Leu Ser Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu Gln His Pro Met Phe
35 40 45

Asp Pro Val Arg Arg Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val
50 55 60

Pro Cys Cys
65

<210> 238

<211> 14

<212> PRT

<213> Conus figulinus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa at residue 3, 5 and 12 is Pro or Hyp; Xaa at residue 4 is Trp
or bromo-Trp

<400> 238

Cys Cys Xaa Xaa Xaa Cys Asn Ile Gly Cys Val Xaa Cys Cys
1 5 10

<210> 239

<211> 283

<212> DNA

<213> Conus figulinus

<400> 239

caagagggat cgatagcagt tcatgatgtt taaactggga gtcctgttga ccatctgtat 60

gcttctgttt ccctttactg ctcttccgct ggatggagag caacctgcag accaacctgc 120

agagcgcatg cagtatgaca tggtacgtgc aatgaatccc tggtttgatc ccgtcaaaag 180

gtgctgctcg aagaactgcg cagtatgcat cccttggtgc ccgtaactga ccagcttgat 240

tatcgcggcc aaggctctaa tgaataagta aaacgattgc agt 283

<210> 240

<211> 67

<212> PRT

<213> Conus figulinus

<400> 240

Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Met Leu Leu Phe
1 5 10 15

Pro Phe Thr Ala Leu Pro Leu Asp Gly Glu Gln Pro Ala Asp Gln Pro

20 25 30

Ala Glu Arg Met Gln Tyr Asp Met Leu Arg Ala Met Asn Pro Trp Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro
50 55 60

Cys Cys Pro
65

<210> 241
<211> 14
<212> PRT
<213> Conus figulinus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 and 14 is Pro or Hyp

<400> 241
Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Xaa Cys Cys Xaa
1 5 10

<210> 242
<211> 286
<212> DNA
<213> Conus figulinus

<400> 242
caagagggat cgatagcagt tcatgatgtc taaactgaga gtcttggtga ccttatgtct 60
gcttctgttt ccccttactg ctcttccgct gaatgaagat caacctgcag agcgtatgca 120
ggacgacaat tcatctgagc agcaccctt gtatgaccac aaacgaaagt gttgccggtg 180
gccatgcccc gcaagatgcg gctcttggtg cctgtaataa cgtgttggcc aactttgtta 240
tcacggccac gtcaaagtgt taatgaataa gtaaaacgat tgcagt 286

<210> 243
<211> 64
<212> PRT
<213> Conus figulinus

<400> 243
Met Met Ser Lys Leu Arg Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
1 5 10 15
Pro Leu Thr Ala Leu Pro Leu Asn Glu Asp Gln Pro Ala Glu Arg Met
20 25 30
Gln Asp Asp Asn Ser Ser Glu Gln His Pro Leu Tyr Asp His Lys Arg
35 40 45
Lys Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
50 55 60

<210> 244
<211> 15
<212> PRT
<213> Conus figulinus

<220>

<221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 5 and 7 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp

<400> 244
 Cys Cys Arg Xaa Xaa Cys Xaa Ala Arg Cys Gly Ser Cys Cys Leu
 1 5 10 15

<210> 245
 <211> 301
 <212> DNA
 <213> Conus figulinus

<400> 245
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttatgtct 60
 gcttctgttt cccctgactg ctcttccgct ggatgaagat caagctgcag accgacctgc 120
 agagcgtatg cagggcatgt catctgaaca gcatcccttc tttgatcccg tcaaacgggtg 180
 ttgcgagttg tcacgctgcc ttggatgcgt cccttggtgc acatcttaat aacgtgtgga 240
 tgaccaactg tgttatcacg gccacgtcaa gtgtctaata aataagtaaa atgattgcag 300
 t 301

<210> 246
 <211> 68
 <212> PRT
 <213> Conus figulinus

<400> 246
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Ala Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro
 50 55 60

Cys Cys Thr Ser
 65

<210> 247
 <211> 16
 <212> PRT
 <213> Conus figulinus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 3 and 12 is Pro or Hyp

<400> 247
 Cys Cys Xaa Leu Ser Arg Cys Leu Gly Cys Val Xaa Cys Cys Thr Ser
 1 5 10 15

<210> 248
 <211> 301
 <212> DNA

<213> Conus figulinus

<400> 248

```
caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccttatgtct      60
gcttctgttt cccctgactg ctcttccgct ggatgaagat caacctgcag accgacctgc      120
agagcgtatg cagggcatgt catctgaaca gcatcccttc tttgatcccg tcaaacgggtg      180
ttgcgagttg tcaaaatgcc atggatgcgt cccttggtgc ataccttaat aacgtgcgga      240
tgaccaactg tgttatcacg gccacgtcaa gtgtctaata aataagtaaa atgattgcag      300
t                                                                                   301
```

<210> 249

<211> 68

<212> PRT

<213> Conus figulinus

<400> 249

```
Met Met Ser Lys Leu Gly Val Leu Leu Thr Leu Cys Leu Leu Leu Phe
1           5           10           15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
          20           25           30

Ala Glu Arg Met Gln Gly Met Ser Ser Glu Gln His Pro Phe Phe Asp
          35           40           45

Pro Val Lys Arg Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro
          50           55           60

Cys Cys Ile Pro
65
```

<210> 250

<211> 16

<212> PRT

<213> Conus figulinus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 12 and 16 is Pro or Hyp

<400> 250

```
Cys Cys Xaa Leu Ser Lys Cys His Gly Cys Val Xaa Cys Cys Ile Xaa
1           5           10           15
```

<210> 251

<211> 298

<212> DNA

<213> Conus quercinus

<400> 251

```
caagagggat cgatagcagt tcatgatgtc taaactcgga gtcttggtga ccatctgtct      60
ggttctgttt ccccttacag ctcttcagct ggatggagat caacctgcag accgacctgc      120
agagcgtacg caggacattt catctgaaca gtatcgaaaag tttgatcaga gacagaggtg      180
ttgccgggtg ccatgccccg gtagttgcag atgctgccgt tatcgttaac gtgttggtga      240
ccagctttgt tatcacgacc acgccaagtg tctaacgaat aagtaaaatg attgcagt      298
```


<210> 252
 <211> 68
 <212> PRT
 <213> Conus quercinus

<400> 252
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Val Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Gln Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Thr Gln Asp Ile Ser Ser Glu Gln Tyr Arg Lys Phe Asp
 35 40 45
 Gln Arg Gln Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys
 50 55 60
 Cys Arg Tyr Arg
 65

<210> 253
 <211> 18
 <212> PRT
 <213> Conus quercinus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 7 and 9 is Pr
 o or Hyp; Xaa at residue 6 is Trp or bromo-Trp; Xaa at residue 17
 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-
 phospho-Tyr

<400> 253
 Xaa Arg Cys Cys Arg Xaa Xaa Cys Xaa Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Xaa Arg

<210> 254
 <211> 313
 <212> DNA
 <213> Conus quercinus

<400> 254
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccact ggatggagat caacctgcag atcaatctgc 120
 agagcgacct gcagagcgta cgcaggacga cattcagcag catccgttat atgatccgaa 180
 aagaaggtgt tgccgttatc catgccccga cagctgccac ggatcttgct gctataagtg 240
 ataacatgtt gatggccagc tttgttatca cggccacgtc aagtgtctaa tgaataagta 300
 aaacgattgc agt 313

<210> 255
 <211> 72
 <212> PRT
 <213> Conus quercinus

<400> 255

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ser
 20 25 30
 Ala Glu Arg Pro Ala Glu Arg Thr Gln Asp Asp Ile Gln Gln His Pro
 35 40 45
 Leu Tyr Asp Pro Lys Arg Arg Cys Cys Arg Tyr Pro Cys Pro Asp Ser
 50 55 60
 Cys His Gly Ser Cys Cys Tyr Lys
 65 70

<210> 256
 <211> 18
 <212> PRT
 <213> Conus quercinus
 <220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 and 17 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
 pho-Tyr

<400> 256
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Asp Ser Cys His Gly Ser Cys Cys
 1 5 10 15

Xaa Lys

<210> 257
 <211> 256
 <212> DNA
 <213> Conus wittigi

<400> 257
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccatt 60
 actgctcttc cgggtgggtgg agatcagcct gcagaccgac ttgcagagcg tatgcaggac 120
 gacacttcat ctgagcagca tccctttgaa aagagactac catcatgttg cgactttgag 180
 aggctttgcg tagtaccagc atgcatacgt catcagtgtt gcacaggata acgtgttgat 240
 gaccaacttt ctcgag 256

<210> 258
 <211> 74
 <212> PRT
 <213> Conus wittigi

<400> 258
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Ile Thr Ala Leu Pro Val Gly Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Thr Ser Ser Glu Gln His Pro Phe Glu
 35 40 45
 Lys Arg Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro
 50 55 60

Ala Cys Ile Arg His Gln Cys Cys Thr Gly
65 70

<210> 259
<211> 23
<212> PRT
<213> Conus wittigi

<220>
<221> PEPTIDE
<222> (1)..(23)
<223> Xaa at residue 8 is Glu or gamma-carboxy Glu; Xaa at residue 2 and 14 is Pro or Hyp

<400> 259
Leu Xaa Ser Cys Cys Asp Phe Xaa Arg Leu Cys Val Val Xaa Ala Cys
1 5 10 15

Ile Arg His Gln Cys Cys Thr
20

<210> 260
<211> 14
<212> PRT
<213> Conus betulinus

<220>
<221> PEPTIDE
<222> (1)..(14)
<223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 260
Cys Cys Lys Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
1 5 10

<210> 261
<211> 259
<212> DNA
<213> Conus tulipa

<220>
<221> misc_feature
<222> (1)..(259)
<223> n may be any nucleotide

<400> 261
ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttct gtttcccctt 60
actgctctgc cgatggatgg agatgaacct gcagaccgac ctgcagagcg tatgcaggac 120
aacatttcac ctgagcagca tcccttggtt gaggagagac acggatgttg cgagggggccg 180
aagggatgct cctccagaga atgcagaccc caacattggt gcggtcgacg ataacgtggt 240
gatgaccaac tntctcgag 259

<210> 262
<211> 75
<212> PRT
<213> Conus tulipa

<400> 262
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe

1			5					10					15				
Pro	Leu	Thr	Ala 20	Leu	Pro	Met	Asp	Gly 25	Asp	Glu	Pro	Ala	Asp 30	Arg	Pro		
Ala	Glu	Arg 35	Met	Gln	Asp	Asn 40	Ile	Ser	Ser	Glu	Gln	His 45	Pro	Leu	Phe		
Glu	Glu 50	Arg	His	Gly	Cys	Cys 55	Glu	Gly	Pro	Lys	Gly 60	Cys	Ser	Ser	Arg		
Glu 65	Cys	Arg	Pro	Gln 70	His	Cys	Cys	Gly	Arg	Arg 75							

```

<210>      263
<211>      21
<212>      PRT
<213>      Conus tulipa

<220>
<221>      PEPTIDE
<222>      (1)..(21)
<223>      Xaa at residue 5 and 14 is Glu or gamma-carboxy Glu; Xaa at residue 7 and 17 is Pro or Hyp

```

<400> 263
His Gly Cys Cys Xaa Gly Xaa Lys Gly Cys Ser Ser Arg Xaa Cys Arg
1 5 10 15

Xaa Gln His Cys Cys
20

```
<210> 264
<211> 262
<212> DNA
<213> Conus aurisiacus
```

```
<220>
<221> misc_feature
<222> (1)..(262)
<223> n may be any nucleotide
```

```

400> 264
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctacttct gtttcccctt 60
actgcttttc cgatggatgg agatcaacct gcagaccaac ctgcagatcg tatgcaggac 120
gacatttcat ctgagcagta tcccttgttt gataagagac aaaagtgttg cactggggagg 180
aaggggtcat gtcccggcaa agcatgcaaa aatctcaa atgtgtcttg acgataacgt 240
gttgatgacc aactttctcg an 262

```

```
<210> 265
<211> 76
<212> PRT
<213> Conus aurisiacus
```

<400> 265
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Phe Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Asp Arg Met Gln Asp Asp Ile Ser Ser Glu Gln Tyr Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly
 50 55 60

Lys Ala Cys Lys Asn Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 266
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 266
 Xaa Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
 20

<210> 267
 <211> 239
 <212> DNA
 <213> Conus betulinus

<400> 267
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctgttc cgttggatgg agatcaacct gcagaccaac ctgcagagcg tatgcagaac 120
 gagcagcatc cctcgtttga tcagaaaaga aggtgctgcc ggtggccatg cccaggtata 180
 tgcggcatgg ctaggtgttg cttcgtcatg ataactgtgt gatgaccaac tttctcgag 239

<210> 268
 <211> 71
 <212> PRT
 <213> Conus betulinus

<400> 268
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Met Gln Asn Glu Gln His Pro Ser Phe Asp Gln Lys Arg
 35 40 45

Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
 50 55 60

Cys Phe Val Met Ile Thr Cys
 65 70

<210> 269
 <211> 23
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Trp

<400> 269
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15
 Cys Phe Val Met Ile Thr Cys
 20

<210> 270
 <211> 226
 <212> DNA
 <213> Conus betulinus

<220>
 <221> misc_feature
 <222> (1)..(226)
 <223> n may be any nucleotide

<400> 270
 ggatccatga tgtctaaact gggagtcttg ttgatcatct gtctgcttct gtttcccctt 60
 actgctgttc cgctggatgg agatcagcct gcagagcgta cgcagatcga gcagcatccc 120
 ttgtttgacc agaaaagaag gtggtgccgg tggccatgcc ccagtagatg cggcatggct 180
 aggtgttgct tcgtcatgat aacgtgttga tgancgacct ctcnag 226

<210> 271
 <211> 67
 <212> PRT
 <213> Conus betulinus

<400> 271
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Glu Arg Thr
 20 25 30
 Gln Ile Glu Gln His Pro Leu Phe Asp Gln Lys Arg Arg Cys Cys Arg
 35 40 45
 Trp Pro Cys Pro Ser Arg Cys Gly Met Ala Arg Cys Cys Phe Val Met
 50 55 60
 Ile Thr Cys
 65

<210> 272
 <211> 23
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Trp

<400> 272

Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Arg Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Phe Val Met Ile Thr Cys
 20

<210> 273
 <211> 262
 <212> DNA
 <213> Conus parius

<400> 273
 ggatccatga tgtctaaact gggagtccttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgatcaacct gcagaccgac ttgtagagcg tatgcaggac 120
 aacatttcac ctgagcagca tcccttcttt gaaaagagaa gaggaggctg ttgcacacct 180
 ccgaagaaat gcaaagaccg agcctgcaaa cctgcacgtt gctgcggccc aggataacgt 240
 gttgatgacc aactttctcg cc 262

<210> 274
 <211> 76
 <212> PRT
 <213> Conus parius

<400> 274
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Lys Arg Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp
 50 55 60
 Arg Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75

<210> 275
 <211> 24
 <212> PRT
 <213> Conus parius

<220>
 <221> PEPTIDE
 <222> (1)..(24)
 <223> Xaa at residue 7, 8, 18 and 24 is Pro or Hyp

<400> 275
 Arg Gly Gly Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 276
 <211> 259
 <212> DNA
 <213> Conus parius

<400> 276
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgatcaacct gcagaccgac ttgtagagcg tatgcaggac 120
 aacatttcac ctgagcagca tcccttcttt gaaaagagaa gaggctgttg cacacctccg 180
 aggaaatgca aagaccgagc ctgcaaacct gcacgttggt gcggcccagg ataacgtgtt 240
 gatgaccaac tttctcgag 259

<210> 277
 <211> 75
 <212> PRT
 <213> Conus parius

<400> 277
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Lys Arg Arg Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg
 50 55 60
 Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75

<210> 278
 <211> 23
 <212> PRT
 <213> Conus parius

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 6, 7, 17 and 23 is Pro or Hyp

<400> 278
 Arg Gly Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15
 Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 279
 <211> 241
 <212> DNA
 <213> Conus coronatus

<400> 279
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
 actgcccttc cgctggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgctgcga ttggccatgc 180
 atcccaggat gcaccccttg ttgcttgctt tgataacgtg ttgatgacca actttctcga 240
 g 241

<210> 280
 <211> 68
 <212> PRT
 <213> Conus coronatus

<400> 280
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Ile Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro
 50 55 60
 Cys Cys Leu Pro
 65

<210> 281
 <211> 16
 <212> PRT
 <213> Conus coronatus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 8, 12 and 16 is Pro or Hyp; Xaa at residue 4 is
 Trp or bromo-Trp

<400> 281
 Cys Cys Asp Xaa Xaa Cys Ile Xaa Gly Cys Thr Xaa Cys Cys Leu Xaa
 1 5 10 15

<210> 282
 <211> 244
 <212> DNA
 <213> Conus musicus

<400> 282
 ggatccatga tgtctaaact gggagtcctg ttgaccatct gtctgcttct gtttcctctt 60
 tctgctcttc cgatggatga agatcaactt gcagacctac ctgcagagcg tatgcgggac 120
 actgcaactg tagatcatcc ctcctatgat cctgacaaag cgtgctgcga gcagagctgt 180
 acaacatgct ttccgtgctg ctagccttga acacagtaac gtgttgatga ccaactttct 240
 cgag 244

<210> 283
 <211> 65
 <212> PRT
 <213> Conus musicus

<400> 283
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Ser Ala Leu Pro Met Asp Glu Asp Gln Leu Ala Asp Leu Pro
 20 25 30
 Ala Glu Arg Met Arg Asp Thr Ala Thr Val Asp His Pro Ser Tyr Asp

	35		40		45										
Pro	Asp	Lys	Ala	Cys	Cys	Glu	Gln	Ser	Cys	Thr	Thr	Cys	Phe	Pro	Cys
	50					55					60				

Cys
65

<210> 284
 <211> 14
 <212> PRT
 <213> Conus musicus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 4 is Glu or gamma-carboxy Glu; Xaa at residue 12 is Pro or Hyp

<400> 284
 Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Phe Xaa Cys Cys
 1 5 10

<210> 285
 <211> 14
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 4 is Glu or gamma-carboxy Glu; Xaa at residue 12 is Pro or Hyp

<400> 285
 Ala Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys
 1 5 10

<210> 286
 <211> 14
 <212> PRT
 <213> Conus betulinus

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 11 is Pro or Hyp; Xaa at residue 14 is Trp or bromo-Trp

<400> 286
 Cys Cys Xaa Gln Ser Cys Thr Thr Cys Met Xaa Cys Cys Xaa
 1 5 10

<210> 287
 <211> 235
 <212> DNA
 <213> Conus pennaceus

<400> 287
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgctggatgg agatcaacct gcataccaag ctgcagagcg tatgcaggcc 120
 gagcatcatc ccttgtttga tcagaaaaga cggtgctgca agtttccatg ccccgatagt 180
 tgcaaatatt tgtgttgcggt gtgatgataa catgttgatg accaactttc ttgag 235

<210> 288
 <211> 65
 <212> PRT
 <213> Conus pennaceus

<400> 288
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Tyr Gln Ala
 20 25 30
 Ala Glu Arg Met Gln Ala Glu His His Pro Leu Phe Asp Gln Lys Arg
 35 40 45
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 50 55 60

Gly
 65

<210> 289
 <211> 16
 <212> PRT
 <213> Conus pennaceus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 13 is Tyr, 1
 25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
 r

<400> 289
 Arg Cys Cys Lys Phe Xaa Cys Xaa Asp Ser Cys Lys Xaa Leu Cys Cys
 1 5 10 15

<210> 290
 <211> 241
 <212> DNA
 <213> Conus pulicarius

<400> 290
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cgatggatgg tgatcaactt gcagaccgac ttgtagagcg tatgcaggac 120
 aacatttcac ctgagcagca tcccttcttt gatcccgta aacgggtgttg cgtcagctgt 180
 tacatgggat gcatcccttg ttgcttctag taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 291
 <211> 67
 <212> PRT
 <213> Conus pulicarius

<400> 291
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Leu Ala Asp Arg Leu
 20 25 30

Val Glu Arg Met Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Val Ser Cys Tyr Met Gly Cys Ile Pro
 50 55 60

Cys Cys Phe
 65

<210> 292
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<220>
 <221> PEPTIDE
 <222> (1)..(14)
 <223> Xaa at residue 11 is Pro or Hyp; Xaa at residue 6 is Tyr, 125I-Tyr,
 r, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 292
 Cys Cys Val Ser Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10

<210> 293
 <211> 244
 <212> DNA
 <213> Conus pulicarius

<400> 293
 ggatccatga tgtctaaact gggagtcttg ttgaccgtct gtctgcttct gtgtcccctt 60
 actgctcttc cactggatga agatcaactt gcagaccgac ctgcagagcg tatgcaggat 120
 gacacttcag ctgcacagat tttcgggttt gatcccgta aacggtgctg caaattgcta 180
 tgctactcgg gatgcactcc ttgttgccat attgataac gtgttgatga ccaactttct 240
 cgag 244

<210> 294
 <211> 67
 <212> PRT
 <213> Conus pulicarius

<400> 294
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Leu Cys
 1 5 10 15

Pro Leu Thr Ala Leu Pro Leu Asp Glu Asp Gln Leu Ala Asp Arg Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Thr Ser Ala Ala Gln Ile Phe Gly Phe
 35 40 45

Asp Pro Val Lys Arg Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys
 50 55 60

Cys His Ile
 65

<210> 295
 <211> 16
 <212> PRT
 <213> Conus pulicarius

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 295
 Cys Cys Lys Leu Leu Cys Xaa Ser Gly Cys Thr Xaa Cys Cys His Ile
 1 5 10 15

<210> 296
 <211> 259
 <212> DNA
 <213> Conus rattus

<400> 296
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttgt gtttccgctt 60
 actgctcttc cgatggatgg tgatcaacct gcagaccgac ttgtagagcg tatacaggac 120
 aacatttcat ctgagcagca tcccttcttt gaaaagagaa gaggctgttg cgcacctccg 180
 aggaaatgca aagaccgagc ctgcaaacct gcacgttgct gcggcccagg ataacgtgtt 240
 gatgaccaac tttctcgag 259

<210> 297
 <211> 75
 <212> PRT
 <213> Conus rattus

<400> 297
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Val Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Leu
 20 25 30
 Val Glu Arg Ile Gln Asp Asn Ile Ser Ser Glu Gln His Pro Phe Phe
 35 40 45
 Glu Lys Arg Arg Gly Cys Cys Ala Pro Pro Arg Lys Cys Lys Asp Arg
 50 55 60
 Ala Cys Lys Pro Ala Arg Cys Cys Gly Pro Gly
 65 70 75

<210> 298
 <211> 23
 <212> PRT
 <213> Conus rattus

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 6, 7, 17 and 23 is Pro or Hyp

<400> 298
 Arg Gly Cys Cys Ala Xaa Xaa Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15
 Xaa Ala Arg Cys Cys Gly Xaa
 20

<210> 299
 <211> 262
 <212> DNA
 <213> *Conus stercusmuscarum*

<400> 299
 ggatccatga tgtctaaact gggagtcttg ttgacaatct gtctgcttct gtttcccctt 60
 attgctcttc cgctggatgg agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 gacatttcac ctgagaagca tcccttggtt gataagagac aacgggtgtg caatgggagg 180
 aggggatgct ccagcagatg gtgcagagat cactcacgtt gttgcggtcg acgataacgt 240
 gttgatgacc aactttctcg ag 262

<210> 300
 <211> 76
 <212> PRT
 <213> *Conus stercusmuscarum*

<400> 300
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Ile Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asp Lys Arg Gln Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg
 50 55 60
 Trp Cys Arg Asp His Ser Arg Cys Cys Gly Arg Arg
 65 70 75

<210> 301
 <211> 22
 <212> PRT
 <213> *Conus stercusmuscarum*

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 14 is Trp or
 bromo-Trp

<400> 301
 Xaa Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg Xaa Cys Arg
 1 5 10 15
 Asp His Ser Arg Cys Cys
 20

<210> 302
 <211> 241
 <212> DNA
 <213> *Conus ebraceus*

<400> 302
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cactggatga aggtcaacct gcagacctac ctgcagagcg tatgcaggac 120

attgcaactg aacagcatcc cttgtttgat cctgtcaaac ggtgttgcca gcagccatgc 180
 tacatgggat gcatcccttg ttgcttctaa taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 303
 <211> 67
 <212> PRT
 <213> Conus ebraceus

<400> 303
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Glu Gly Gln Pro Ala Asp Leu Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Glu Gln Pro Cys Tyr Met Gly Cys Ile Pro
 50 55 60
 Cys Cys Phe
 65

<210> 304
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 is Glu or gamma-carboxy Glu; Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 304
 Cys Cys Xaa Gln Xaa Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
 1 5 10 15

<210> 305
 <211> 241
 <212> DNA
 <213> Conus ebraceus
 <400> 305

ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttcccctt 60
 actgctcttc cactggatga agatcaacct gcagacctac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cctgtcaaac ggtgctgcgc gcagccatgc 180
 tacatgggat gcatcccttg ttgcttctaa taataacgtg ttgatgacca actttctcga 240
 g 241

<210> 306
 <211> 67
 <212> PRT
 <213> Conus ebraceus

<400> 306
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe

[illegible]

```

<210> 307
<211> 15
<212> PRT
<213> Conus ebraceus

<220>
<221> PEPTIDE
<222> (1)..(15)
<223> Xaa at residue 5 and 12 is Pro or Hyp; Xaa at residue 7 is Tyr, 1
25I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Ty
r

```

<400> 307
Cys Cys Ala Gln Xaa Cys Xaa Met Gly Cys Ile Xaa Cys Cys Phe
1 5 10 15

```
<210> 308
<211> 238
<212> DNA
<213> Conus flavidus
```

```

<400> 308
ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccctt      60
actgctgttc cgttggatgg agatcaacct gcagaccagc ctgcagagcg tatgcagaac      120
gagcagcatc ccttgtttga tcagaaaaga aggtgctgcc ggtggccatg ccccagtata      180
tgcggcgatg ctaggtgttg ctgcgtcatga taacgtgttg atgaccaact ttctcqaq      238

```

```
<210> 309
<211> 67
<212> PRT
<213> Conus flavidus
```

<400> 309
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Pro
20 25 30

Ala Glu Arg Met Gln Asn Glu Gln His Pro Leu Phe Asp Gln Lys Arg
35 40 45

Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys
50 55 60

Cys Ser Ser
65

<210> 310
 <211> 19
 <212> PRT
 <213> Conus flavidus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa at residue 6 and 8 is Pro or Hyp; Xaa at residue 5 is Trp or bromo-Trp

<400> 310
 Arg Cys Cys Arg Xaa Xaa Cys Xaa Ser Ile Cys Gly Met Ala Arg Cys
 1 5 10 15

Cys Ser Ser

<210> 311
 <211> 245
 <212> DNA
 <213> Conus miliaris

<220>
 <221> misc_feature
 <222> (1)..(245)
 <223> n may be any nucleotide

<400> 311
 ggatccatga tgtctaaact gggagtcttg ttgaccatct gtctgcttct gtttccaatt 60
 actgcccttc cactggatga agatcaacct gcagaccgac ctgcagagcg tatgcaggac 120
 attgcaactg aacagcatcc cttgtttgat cccgtcaaac ggtgttgcca ttggccatgc 180
 agcgcaggat gctacccttg ttgcttcct taataacgtg ttgatgacca actnangnaa 240
 aaaaaa 245

<210> 312
 <211> 68
 <212> PRT
 <213> Conus miliaris

<400> 312
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Ile Thr Ala Leu Pro Leu Asp Glu Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Ile Ala Thr Glu Gln His Pro Leu Phe Asp
 35 40 45
 Pro Val Lys Arg Cys Cys Asp Trp Pro Cys Ser Ala Gly Cys Tyr Pro
 50 55 60
 Cys Cys Phe Pro
 65

<210> 313
 <211> 16
 <212> PRT
 <213> Conus miliaris

<220>

<221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5, 12 and 16 is Pro or Hyp; Xaa at residue 4 is Trp or bromo-Trp; Xaa at residue 11 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 313
 Cys Cys Asp Xaa Xaa Cys Ser Ala Gly Cys Xaa Xaa Cys Cys Phe Xaa
 1 5 10 15

<210> 314
 <211> 230
 <212> DNA
 <213> Conus miliaris

<220>
 <221> misc_feature
 <222> (1)..(230)
 <223> n may be any nucleotide

<400> 314
 ggatccatga tgtctaaact gggagtgggtg ccattcgtct ttctggtcct gtttcccctg 60
 gcaacactcc aactggatgc agatcaacct gcagaccgac ctgcgcgtaa aaagggcatt 120
 gcaactaaac ggcattccctt gtctgatacct gtcagagggt gttgccctcc aatgtgcaca 180
 ccatgcttcc cttgctgttt tcgttaataa cgtgttgatg natgatgnan 230

<210> 315
 <211> 66
 <212> PRT
 <213> Conus miliaris

<400> 315
 Met Met Ser Lys Leu Gly Val Val Pro Phe Val Phe Leu Val Leu Phe
 1 5 10 15
 Pro Leu Ala Thr Leu Gln Leu Asp Ala Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Arg Lys Lys Gly Ile Ala Thr Lys Arg His Pro Leu Ser Asp Pro
 35 40 45
 Val Arg Gly Cys Cys Pro Pro Met Cys Thr Pro Cys Phe Pro Cys Cys
 50 55 60

Phe Arg
 65

<210> 316
 <211> 16
 <212> PRT
 <213> Conus miliaris

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 4, 9 and 12 is Pro or Hyp; Xaa at residue 5 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 316
 Gly Cys Cys Xaa Xaa Met Cys Thr Xaa Cys Phe Xaa Cys Cys Phe Arg
 1 5 10 15

<210> 317
 <211> 295
 <212> DNA
 <213> Conus ammiralis

<400> 317
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt ccccttactg ctcttccgct ggatggagat caacctgcag accaagctgc 120
 agagcgtatg caggccgagc agcatccctt gtttgatcag aaaagacggt gttgcagggt 180
 tccatgcccc gatacttgca gacatttggtg ttgcgggtga tgataacgtg ctgatgaccc 240
 actttgtcat cacggctacg tcaagtgtct aatgaataag taaaatgatt gcagt 295

<210> 318
 <211> 65
 <212> PRT
 <213> Conus ammiralis

<400> 318
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Pro Leu Thr Ala Leu Pro Leu Asp Gly Asp Gln Pro Ala Asp Gln Ala
 20 25 30
 Ala Glu Arg Met Gln Ala Glu Gln His Pro Leu Phe Asp Gln Lys Arg
 35 40 45
 Arg Cys Cys Arg Phe Pro Cys Pro Asp Thr Cys Arg His Leu Cys Cys
 50 55 60

Gly
 65

<210> 319
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 and 8 is Pro or Hyp

<400> 319
 Arg Cys Cys Arg Phe Xaa Cys Xaa Asp Thr Cys Arg His Leu Cys Cys
 1 5 10 15

<210> 320
 <211> 267
 <212> DNA
 <213> Conus ammiralis

<400> 320
 caagagggat cgatagcagt tcatgatgtt taaactggga gtcttgctga ccatctgtct 60
 acttctgttt tcccttaatg ctgttccgct ggatggagat caacctgcag accaacctgc 120
 agagcgtctg ctggacgaca tttcatctga aaataatccc ttttatgac cgcctaaacg 180
 gtgttgcatg acttgcttcg gttgcacacc ttgttggtga tgaccagcct catcaagtgt 240

ctaacgaata agtaaaacga ttgcagt

267

<210> 321

<211> 66

<212> PRT

<213> Conus ammiralis

<400> 321

Met	Met	Phe	Lys	Leu	Gly	Val	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Leu	Phe
1				5					10					15	

Ser	Leu	Asn	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	Pro	Ala	Asp	Gln	Pro
			20					25					30		

Ala	Glu	Arg	Leu	Leu	Asp	Asp	Ile	Ser	Ser	Glu	Asn	Asn	Pro	Phe	Tyr
		35					40					45			

Asp	Pro	Ala	Lys	Arg	Cys	Cys	Met	Thr	Cys	Phe	Gly	Cys	Thr	Pro	Cys
	50					55					60				

Cys Gly

65

<210> 322

<211> 12

<212> PRT

<213> Conus ammiralis

<220>

<221> PEPTIDE

<222> (1)..(12)

<223> Xaa at residue 10 is Pro or Hyp

<400> 322

Cys	Cys	Met	Thr	Cys	Phe	Gly	Cys	Thr	Xaa	Cys	Cys
1				5					10		

<210> 323

<211> 294

<212> DNA

<213> Conus ammiralis

<400> 323

caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60

acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120

agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgata ccgtcaaacg 180

gtgttgcatg gattcggaat gcgactattc ttgctggcct tgctgtatatt tttcataacc 240

tttgttatcg cggcctcatc ctagtgtcaa atgaataagt aaaacgattg cagt 294

<210> 324

<211> 71

<212> PRT

<213> Conus ammiralis

<400> 324

Met	Met	Ser	Lys	Leu	Gly	Ala	Leu	Leu	Thr	Ile	Cys	Leu	Leu	Leu	Phe
1				5					10					15	

Ser	Leu	Thr	Ala	Val	Pro	Leu	Asp	Gly	Asp	Gln	His	Ala	Asp	Gln	Pro
			20					25					30		

Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60

Trp Pro Cys Cys Ile Phe Ser
 65 70

<210> 325

<211> 18

<212> PRT

<213> Conus ammiralis

<220>

<221> PEPTIDE

<222> (1)..(18)

<223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 325

Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15

Phe Ser

<210> 326

<211> 284

<212> DNA

<213> Conus ammiralis

<400> 326

caagagggat cgatagcagt tcatgatgtt taaactcgga gtcttgctga ccatctgtct 60

acttctgttt tcctaattg ctgttccgct ggatggagat caacatgcag accaacctgc 120

agagcgtctg caggaccgcc ttccaactga aaatcatccc ttatatgata ccgtcaaacg 180

gtgttgacagg ttgttatgcc tcagttgcaa cccttgttgt ggatgaccag ctttgttatc 240

acggcctcat caagtgtcta atgaataagt aaaacgattg cagt 284

<210> 327

<211> 67

<212> PRT

<213> Conus ammiralis

<400> 327

Met Met Phe Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45

Asp Pro Val Lys Arg Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Pro
 50 55 60

Cys Cys Gly
 65

<210> 328
 <211> 13
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(13)
 <223> Xaa at residue 11 is Pro or Hyp

<400> 328
 Cys Cys Arg Leu Leu Cys Leu Ser Cys Asn Xaa Cys Cys
 1 5 10

<210> 329
 <211> 289
 <212> DNA
 <213> Conus ammiralis

<400> 329
 caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacctgc 120
 agagcgtctg caggaccgca ttccaactga agatcatccc ttatttgatc ccaacaaacg 180
 gtgttgcatg gattcggaat gcggctattc atgctggcct tgctgttatg gataagcttt 240
 gttatcgcg cctcatccag tgtcaacgaa taagtaaaac gattgcagt 289

<210> 330
 <211> 70
 <212> PRT
 <213> Conus ammiralis

<400> 330
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asp His Pro Leu Phe
 35 40 45
 Asp Pro Asn Lys Arg Cys Cys Asp Asp Ser Glu Cys Gly Tyr Ser Cys
 50 55 60
 Trp Pro Cys Cys Tyr Gly
 65 70

<210> 331
 <211> 16
 <212> PRT
 <213> Conus ammiralis

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue6 is Glu or gamma-carboxy Glu; Xaa at residue 13 i
 s Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at resid
 ue 9 and 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulph
 o-Tyr or O-phospho-Tyr

<400> 331
 Cys Cys Asp Asp Ser Xaa Cys Gly Xaa Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 332
 <211> 272
 <212> DNA
 <213> Conus spurius

<400> 332
 caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
 gcttctgttt ccacgtactt ctcttccgct ggatggagat caacctgcag tccgatctgc 120
 aaagcgtatg cattcatcta tacagcgtcg tttctttgat cccgtcaaac ggtgttgccc 180
 tagatgcagc gagtgcaacc cttgttggtg atgaccagct ttgtcatcgc ggccatcatta 240
 agtgtctaata gaataagtaa aatgattgca gt 272

<210> 333
 <211> 63
 <212> PRT
 <213> Conus spurius

<400> 333
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Arg Thr Ser Leu Pro Leu Asp Gly Asp Gln Pro Ala Val Arg Ser
 20 25 30

Ala Lys Arg Met His Ser Ser Ile Gln Arg Arg Phe Phe Asp Pro Val
 35 40 45

Lys Arg Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys Gly
 50 55 60

<210> 334
 <211> 12
 <212> PRT
 <213> Conus spurius

<220>
 <221> PEPTIDE
 <222> (1)..(12)
 <223> Xaa at residue 7 is Glu or gamma-carboxy Glu; Xaa at residue 3 and 10 is Pro or Hyp

<400> 334
 Cys Cys Xaa Arg Cys Ser Xaa Cys Asn Xaa Cys Cys
 1 5 10

<210> 335
 <211> 293
 <212> DNA
 <213> Conus omaria

<400> 335
 caagagggat cgatagcagt tcatgatgtc taaactggga gtctcggtga ccatctgtct 60
 acttctatatt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc ccgtcaaacg 180

gtgttgcgat gaggaagaat gcagcagtc atgctggcct tgttgttggg ggtgatcagc 240

tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaatgattgc agt 293

<210> 336

<211> 70

<212> PRT

<213> Conus omaria

<400> 336

Met Met Ser Lys Leu Gly Val Ser Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
35 40 45

Asn Pro Val Lys Arg Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys
50 55 60

Trp Pro Cys Cys Trp Gly
65 70

<210> 337

<211> 16

<212> PRT

<213> Conus omaria

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 4, 5 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 337

Cys Cys Asp Xaa Xaa Xaa Cys Ser Ser Ala Cys Xaa Xaa Cys Cys Xaa
1 5 10 15

<210> 338

<211> 293

<212> DNA

<213> Conus omaria

<400> 338

caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttgttga tcatctgtct 60

acttctgtgt ccccttactg ctgttctgga ggatggagat caacctgcag accgacctgc 120

agagcgtatg caggacgaca tttcaactga gcatcatccc ttttatgatc ccgtcaaacg 180

gtgttgcaag tacgggtgga catgcttgct aggatgcact ccttgtgatt gttgaccagt 240

tttgttatcg cggcctcgtc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 339

<211> 70

<212> PRT

<213> Conus omaria

<400> 339

Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
1 5 10 15

Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Thr Glu His His Pro Phe Tyr
35 40 45

Asp Pro Val Lys Arg Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly
50 55 60

Cys Thr Pro Cys Asp Cys
65 70

<210> 340

<211> 17

<212> PRT

<213> Conus omaria

<220>

<221> PEPTIDE

<222> (1)..(17)

<223> Xaa at residue is 14 Pro or Hyp; Xaa at residue 6 is Trp or bromo
-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr,
O-sulpho-Tyr or O-phospho-Tyr

<400> 340

Cys Cys Lys Xaa Gly Xaa Thr Cys Leu Leu Gly Cys Thr Xaa Cys Asp
1 5 10 15

Cys

<210> 341

<211> 290

<212> DNA

<213> Conus omaria

<400> 341

caagagggat cgatagcagt tcatgatgtc tatactggga gtcttggtga tcatctgtct 60

acttctgtgt ccccttactg ctgttctgga ggatggagat caacctgcag accgacctgc 120

agagcgtatg caggacggca tttcatctga acatcatccc tttttggatc cagtcaaacg 180

gtgttgccat ctattggcat gccgctttgg atgctcgctt tgttggtggt gaccagcttt 240

gttatcgcg cctcatcaag tgtctaataa ataagtaaaa cgattgcagt 290

<210> 342

<211> 69

<212> PRT

<213> Conus omaria

<400> 342

Met Met Ser Ile Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
1 5 10 15

Pro Leu Thr Ala Val Leu Glu Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Gly Ile Ser Ser Glu His His Pro Phe Leu
35 40 45

Asp Pro Val Lys Arg Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys
50 55 60

Ser Pro Cys Cys Trp
65

<210> 343
<211> 16
<212> PRT
<213> Conus omaria

<220>
<221> PEPTIDE
<222> (1)..(16)
<223> Xaa at residue 13 is Pro or Hyp; Xaa at residue 16 is Trp or brom
o-Trp

<400> 343
Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Xaa Cys Cys Xaa
1 5 10 15

<210> 344
<211> 293
<212> DNA
<213> Conus omaria

<400> 344
caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatctgtct 60
acttctttgt ccccttactg ctgttccgca ggatggagat caacctgcag accgacctgc 120
agagcgtatg cagggcggca tttcatctga acatcatccc ttttttgatc ccgtcaaacg 180
gtgttgacagg tacgggtgga catgctggct aggatgcact ccctgtgggt gttgaccagc 240
tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt 293

<210> 345
<211> 70
<212> PRT
<213> Conus omaria

<400> 345
Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Cys
1 5 10 15

Pro Leu Thr Ala Val Pro Gln Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Gly Gly Ile Ser Ser Glu His His Pro Phe Phe
35 40 45

Asp Pro Val Lys Arg Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly
50 55 60

Cys Thr Pro Cys Gly Cys
65 70

<210> 346
<211> 17
<212> PRT
<213> Conus omaria

<220>
<221> PEPTIDE
<222> (1)..(17)
<223> Xaa at residue 14 is Pro or Hyp; Xaa at residue 6 and 9 is Trp or
bromo-Trp; Xaa at residue 4 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-

iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 346

Cys Cys Arg Xaa Gly Xaa Thr Cys Xaa Leu Gly Cys Thr Xaa Cys Gly
 1 5 10 15

Cys

<210> 347

<211> 293

<212> DNA

<213> Conus episcopatus

<400> 347

caagaaggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 acttctgttt tcccttattg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttatgc ctgtcaaacg 180
 gtgttgcgat gaggacgaat gcaacagttc atgctggcct tgttggtggg ggtgatcagc 240
 tttgttatcg cggcctgatc aagtgtataa tgaataagta aaacgattgc agt 293

<210> 348

<211> 70

<212> PRT

<213> Conus episcopatus

<400> 348

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45
 Met Pro Val Lys Arg Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys
 50 55 60
 Trp Pro Cys Cys Trp Gly
 65 70

<210> 349

<211> 16

<212> PRT

<213> Conus episcopatus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue 4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 349

Cys Cys Asp Xaa Asp Xaa Cys Asn Ser Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 350

<211> 293

<212> DNA

<213> Conus episcopatus

<400> 350

```

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct      60
acttctgttt tcccttattg ctgttccgct tgatggagat caacatgcag accaacctgc      120
agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttatgc ctgtcaaacg      180
gtgttgcatg gaggacgaat gcagcagttc atgctggcct tgttggtggg gatgagcagc      240
tttgttatcg cggcctcatc aagtgtctaa tgaataagta aaacgattgc agt          293

```

<210> 351

<211> 70

<212> PRT

<213> Conus episcopatus

<400> 351

```

Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1           5           10          15

Ser Leu Ile Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
          20          25          30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
          35          40          45

Met Pro Val Lys Arg Cys Cys Asp Glu Asp Glu Cys Ser Ser Ser Cys
          50          55          60

Trp Pro Cys Cys Trp Gly
65          70

```

<210> 352

<211> 16

<212> PRT

<213> Conus episcopatus

<220>

<221> PEPTIDE

<222> (1)..(16)

<223> Xaa at residue4 and 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 and 16 is Trp or bromo-Trp

<400> 352

```

Cys Cys Asp Xaa Asp Xaa Cys Ser Ser Ser Cys Xaa Xaa Cys Cys Xaa
1           5           10          15

```

<210> 353

<211> 290

<212> DNA

<213> Conus episcopatus

<400> 353

```

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct      60
acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc      120
agagcgtctg cagggcgaca ttttatctga aaagcatccc ttatttaatc cagtcaaacg      180
gtgttgcccc gggcgggcat gtgccatggg atgcaagcct tgttggtggat gagcagcttt      240
gttatcgtgg cctcatcaag tgtctaataa ataagtaaaa cgattgcagt          290

```

<210> 354
 <211> 69
 <212> PRT
 <213> Conus episcopatus

<400> 354
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45
 Asn Pro Val Lys Arg Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys
 50 55 60
 Lys Pro Cys Cys Gly
 65

<210> 355
 <211> 15
 <212> PRT
 <213> Conus episcopatus

<220>
 <221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 3 and 13 is Pro or Hyp

<400> 355
 Cys Cys Xaa Ala Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 356
 <211> 295
 <212> DNA
 <213> Conus aulicus

<400> 356
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 gcttctgttt tccgttactg ctcttccgcc ggatggagat caacctgcag accgagctgc 120
 agagcgtagg caggtcgagc agcatcccgt gttgatcat gaaagagggt gttgctcgcc 180
 accatgccac agtattttgcg ctgctttctg ttgcgggtga tgataacgtg ttgatgaccc 240
 actttgtcat cacggctgcg tcaagtgtct aatgaataag taaaatgatt gcagt 295

<210> 357
 <211> 65
 <212> PRT
 <213> Conus aulicus

<400> 357
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Val Thr Ala Leu Pro Pro Asp Gly Asp Gln Pro Ala Asp Arg Ala
 20 25 30
 Ala Glu Arg Arg Gln Val Glu Gln His Pro Val Phe Asp His Glu Arg

35 40 45
 Gly Cys Cys Ser Pro Pro Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 50 55 60

Gly
 65

<210> 358
 <211> 16
 <212> PRT
 <213> Conus aulicus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 5 and 6 is Pro or Hyp

<400> 358
 Gly Cys Cys Ser Xaa Xaa Cys His Ser Ile Cys Ala Ala Phe Cys Cys
 1 5 10 15

<210> 359
 <211> 290
 <212> DNA
 <213> Conus aulicus

<400> 359
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct tgatggagat caacatgcag accaacctgc 120
 agagcgtctg cagggcgaca ttttatctga aaagcatccc ttattttaatc ccgtcaaacg 180
 gtgttgccga cgggtggcat gtgccatggg atgcaagcct tgttgtggat gaggcagcttt 240
 gttatcgtgg cctcatcaag tgtctaataa ataagtaaaa tgattgcagt 290

<210> 360
 <211> 69
 <212> PRT
 <213> Conus aulicus

<400> 360
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Leu Gln Gly Asp Ile Leu Ser Glu Lys His Pro Leu Phe
 35 40 45

Asn Pro Val Lys Arg Cys Cys Arg Pro Val Ala Cys Ala Met Gly Cys
 50 55 60

Lys Pro Cys Cys Gly
 65

<210> 361
 <211> 15
 <212> PRT
 <213> Conus aulicus

<220>

<221> PEPTIDE
 <222> (1)..(15)
 <223> Xaa at residue 4 and 13 is Pro or Hyp

<400> 361
 Cys Cys Arg Xaa Val Ala Cys Ala Met Gly Cys Lys Xaa Cys Cys
 1 5 10 15

<210> 362
 <211> 290
 <212> DNA
 <213> Conus aulicus

<400> 362
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga tcatctgtct 60
 acttctgtct ccccttactg ctgttccgct ggatggagat caacctgcag accgacctgc 120
 agagcgtatg caggacgaca ttcatctga acatcaaccc atgtttgatg ccatcagaca 180
 gtgttgcccg gcggtggcat gcgccatggg atgcgagcct tgttggtggat gaccagcttt 240
 gttatcgcg cctcatcaag tgtctaata gaataagtaaaa tgattgcagt 290

<210> 363
 <211> 69
 <212> PRT
 <213> Conus aulicus

<400> 363
 Met Met Ser Lys Leu Gly Val Leu Leu Ile Ile Cys Leu Leu Leu Ser
 1 5 10 15
 Pro Leu Thr Ala Val Pro Leu Asp Gly Asp Gln Pro Ala Asp Arg Pro
 20 25 30
 Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu His Gln Pro Met Phe
 35 40 45
 Asp Ala Ile Arg Gln Cys Cys Pro Ala Val Ala Cys Ala Met Gly Cys
 50 55 60
 Glu Pro Cys Cys Gly
 65

<210> 364
 <211> 16
 <212> PRT
 <213> Conus aulicus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 1 is Gln or pyro-Glu; Xaa at residue 13 is Glu or
 gamma-carboxy Glu; Xaa at residue 4 and 14 is Pro or Hyp

<400> 364
 Xaa Cys Cys Xaa Ala Val Ala Cys Ala Met Gly Cys Xaa Xaa Cys Cys
 1 5 10 15

<210> 365
 <211> 293
 <212> DNA
 <213> Conus aureus

<400> 365
 caagaaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tcccttactg ctgttccgct ggatggagat caacatgcag accaacaatgc 120
 agagcgtctg catgaccgcc ttccaactga aaatcatccc ttatatgatc ccgtcaaacg 180
 gtgttgcatg gattcggaat gcgactattc ttgctggcct tgctgtatgt ttggataacc 240
 tttgttatcg cggcctcatc aagtgtcaaa tgaataagta aaacgattgc agt 293

<210> 366
 <211> 71
 <212> PRT
 <213> Conus aureus

<400> 366
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln His
 20 25 30
 Ala Glu Arg Leu His Asp Arg Leu Pro Thr Glu Asn His Pro Leu Tyr
 35 40 45
 Asp Pro Val Lys Arg Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys
 50 55 60
 Trp Pro Cys Cys Ile Phe Gly
 65 70

<210> 367
 <211> 17
 <212> PRT
 <213> Conus aureus

<220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 12 is Trp or bromo-Trp; Xaa at residue 9 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 367
 Cys Cys Asp Asp Ser Xaa Cys Asp Xaa Ser Cys Xaa Xaa Cys Cys Ile
 1 5 10 15
 Phe

<210> 368
 <211> 290
 <212> DNA
 <213> Conus aureus

<400> 368
 caagaggat cgatagcagt tcatgatgtc taaactggga gccttggtga ccatctgtct 60
 acttctgttt tccctaactg ctgttccgct ggatggagat caacatgcag accaaccctgc 120
 agagcgtctg caggaccgca ttccaactga aaatcatccc ttatttgatc cgaacaaacg 180
 gtgttgcaat gattgggaat gcgacgattc atgctggcct tgctgttatg gataaccttt 240

gttatcgcgg cctcatcaag tgtcaaatga ataagtaaaa cgattgcagt 290

<210> 369
 <211> 70
 <212> PRT
 <213> Conus aureus

<400> 369
 Met Met Ser Lys Leu Gly Ala Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15
 Ser Leu Thr Ala Val Pro Leu Asp Gly Asp Gln His Ala Asp Gln Pro
 20 25 30
 Ala Glu Arg Leu Gln Asp Arg Ile Pro Thr Glu Asn His Pro Leu Phe
 35 40 45
 Asp Pro Asn Lys Arg Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys
 50 55 60
 Trp Pro Cys Cys Tyr Gly
 65 70

<210> 370
 <211> 16
 <212> PRT
 <213> Conus aureus

<220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa at residue 6 is Glu or gamma-carboxy Glu; Xaa at residue 13 is Pro or Hyp; Xaa at residue 5 and 12 is Trp or bromo-Trp; Xaa at residue 16 is Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

<400> 370
 Cys Cys Asn Asp Xaa Xaa Cys Asp Asp Ser Cys Xaa Xaa Cys Cys Xaa
 1 5 10 15

<210> 371
 <211> 310
 <212> DNA
 <213> Conus consors

<400> 371
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ccatctgttt 60
 gcttctgttt ccccttactg ctcttccaat ggatggagat caatctgtag accgacctgc 120
 agagcgtatg caggacgaca tttcatctga gctgcatccc ttgttcaatc agaaaagaat 180
 gtgttgcggc gaaggtgcmc catgccccag ctatttcaga aacagtcaga tttgtcattg 240
 ttgttaaagt acaacgtgtc gatgaccaac ttcgttatca cgactaatga ataagtaaaa 300
 tgattgcagt 310

<210> 372
 <211> 74
 <212> PRT
 <213> Conus consors

<400> 372
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe

1	5							10					15				
Pro	Leu	Thr	Ala 20	Leu	Pro	Met	Asp	Gly 25	Asp	Gln	Ser	Val	Asp 30	Arg	Pro		
Ala	Glu	Arg 35	Met	Gln	Asp	Asp	Ile 40	Ser	Ser	Glu	Leu	His 45	Pro	Leu	Phe		
Asn	Gln 50	Lys	Arg	Met	Cys	Cys 55	Gly	Glu	Gly	Ala	Pro 60	Cys	Pro	Ser	Tyr		
Phe 65	Arg	Asn	Ser	Gln 70	Ile	Cys	His	Cys	Cys								

```

<210> 373
<211> 22
<212> PRT
<213> Conus consors

<220>
<221> PEPTIDE
<222> (1)..(22)
<223> Xaa at residue 5 is Glu or gamma-carboxy Glu; Xaa at residue 8 and
      10 is Pro or Hyp; Xaa at residue 12 is Tyr, 125I-Tyr, mono-iodo
      -Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phospho-Tyr

```

```
<400> 373
Met Cys Cys Gly Xaa Gly Ala Xaa Cys Xaa Ser Xaa Phe Arg Asn Ser
1          5          10          15
```

Gln Ile Cys His Cys Cys
20

```
<210> 374
<211> 315
<212> DNA
<213> Conus consors
```

[illegible]

<210>	375
<211>	74
<212>	PRT
<213>	Conus consors

<400> 375
Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
1 5 10 15

Pro Leu Ile Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Arg Pro
20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Gln Gln His Pro Leu Phe
35 40 45

Asp Lys Arg Gly Arg Cys Cys Asp Val Pro Asn Ala Cys Ser Gly Arg
 50 55 60

Trp Cys Arg Asp His Ala Gln Cys Cys Gly
 65 70

<210> 376

<211> 22

<212> PRT

<213> Conus consors

<220>

<221> PEPTIDE

<222> (1)..(22)

<223> Xaa at residue 7 is Pro or Hyp; Xaa at residue 14 is Trp or bromo
 -Trp

<400> 376

Gly Arg Cys Cys Asp Val Xaa Asn Ala Cys Ser Gly Arg Xaa Cys Arg
 1 5 10 15

Asp His Ala Gln Cys Cys
 20

<210> 377

<211> 322

<212> DNA

<213> Conus consors

<400> 377

caagagggat cgatagcagt tcatgatgtc taaactggga gtcttggtga ctgtctgttt 60

gcttctgttt ccccttactg ctcttccgat ggatggagat caacctgcag accaacctgc 120

agagcgtatg caggacgaca tttcatctga gcagcatccc ttgtttgata agagacaaag 180

gtgttgcaact gggaagaagg ggtcatgctc cggtaaagca tgcaaaagtc tcaaatgttg 240

ctctggacga taacgtgttg atgaccaact ttgttatcac ggctacgtca agtgtctagt 300

gaataagtaa aacgattgca gt 322

<210> 378

<211> 76

<212> PRT

<213> Conus consors

<400> 378

Met Met Ser Lys Leu Gly Val Leu Leu Thr Val Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Ala Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Gln Pro
 20 25 30

Ala Glu Arg Met Gln Asp Asp Ile Ser Ser Glu Gln His Pro Leu Phe
 35 40 45

Asp Lys Arg Gln Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly
 50 55 60

Lys Ala Cys Lys Ser Leu Lys Cys Cys Ser Gly Arg
 65 70 75

<210> 379

<211> 23
 <212> PRT
 <213> Conus consors

<220>
 <221> PEPTIDE
 <222> (1)..(23)
 <223> Xaa at residue 1 is Gln or pyro-Glu

<400> 379
 Xaa Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
 20

<210> 380
 <211> 284
 <212> DNA
 <213> Conus emaciatus

<400> 380
 caagagggat cgatagcagt tcatgatgtc taaactggga gtcttgctga ccatctgtct 60
 gcttctgttt ccccttactg ttcttccgat ggatggagat caacctgcag acctacctgc 120
 attgcgtgcg cagttctttg cacctgaaca tagtccccgg tttgaccccg tcaaacgggtg 180
 ctgctcgcg gattgcagtg tttgcatccc ttgttgcccg tatggatcac cttgattatt 240
 gcggccacgt caagtgtcta atgaataagt aaaatgattg cagt 284

<210> 381
 <211> 70
 <212> PRT
 <213> Conus emaciatus

<400> 381
 Met Met Ser Lys Leu Gly Val Leu Leu Thr Ile Cys Leu Leu Leu Phe
 1 5 10 15

Pro Leu Thr Val Leu Pro Met Asp Gly Asp Gln Pro Ala Asp Leu Pro
 20 25 30

Ala Leu Arg Ala Gln Phe Phe Ala Pro Glu His Ser Pro Arg Phe Asp
 35 40 45

Pro Val Lys Arg Cys Cys Ser Arg Asp Cys Ser Val Cys Ile Pro Cys
 50 55 60

Cys Pro Tyr Gly Ser Pro
 65 70

<210> 382
 <211> 18
 <212> PRT
 <213> Conus emaciatus

<220>
 <221> PEPTIDE
 <222> (1)..(18)
 <223> Xaa at residue 11, 14 and 18 is Pro or Hyp; Xaa at residue 15 is
 Tyr, 125I-Tyr, mono-iodo-Tyr, di-iodo-Tyr, O-sulpho-Tyr or O-phos
 pho-Tyr

<400> 382

Cys	Cys	Ser	Arg	Asp	Cys	Ser	Val	Cys	Ile	Xaa	Cys	Cys	Xaa	Xaa	Gly
1				5					10					15	

Ser Xaa

<210> 383

<211> 13

<212> PRT

<213> Conus aurisiacus

<400> 383

Cys	Cys	Lys	Val	Gln	Cys	Glu	Ser	Cys	Thr	Pro	Cys	Cys
1				5					10			

<210> 384

<211> 15

<212> PRT

<213> Conus atlanticus

<400> 384

Cys	Cys	Glu	Leu	Pro	Cys	Gly	Pro	Gly	Phe	Cys	Val	Pro	Cys	Cys
1				5					10					15

<210> 385

<211> 14

<212> PRT

<213> Conus arentus

<400> 385

Cys	Cys	Glu	Arg	Pro	Cys	Asn	Ile	Gly	Cys	Val	Pro	Cys	Cys
1				5					10				

<210> 386

<211> 16

<212> PRT

<213> Conus bandus

<400> 386

Cys	Cys	Asn	Trp	Pro	Cys	Ser	Met	Gly	Cys	Ile	Pro	Cys	Cys	Tyr	Tyr
1				5					10					15	

<210> 387

<211> 15

<212> PRT

<213> Conus betulinus

<400> 387

Cys	Cys	Glu	Leu	Pro	Cys	His	Gly	Cys	Val	Pro	Cys	Cys	Trp	Pro
1				5					10					15

<210> 388

<211> 16

<212> PRT

<213> Conus betulinus

<400> 388

Cys	Cys	Gly	Leu	Pro	Cys	Asn	Gly	Cys	Val	Pro	Cys	Cys	Trp	Pro	Ser
1				5					10					15	

<210> 389

<211> 18

<212> PRT

<213> Conus betulinus

<400> 389

Cys	Cys	Ser	Arg	Asn	Cys	Ala	Val	Cys	Ile	Pro	Cys	Cys	Pro	Asn	Trp
1				5					10					15	

Pro Ala

<210> 390

<211> 14

<212> PRT

<213> Conus betulinus

<400> 390

Cys	Cys	Lys	Gln	Ser	Cys	Thr	Thr	Cys	Met	Pro	Cys	Cys	Trp
1				5					10				

<210> 391

<211> 14

<212> PRT

<213> Conus betulinus

<220>

<221> PEPTIDE

<222> (1)..(14)

<223> Xaa is Glu or gamma-carboxy Glu

<400> 391

Ala	Cys	Cys	Xaa	Gln	Ser	Cys	Thr	Thr	Cys	Met	Pro	Cys	Cys
1				5					10				

<210> 392

<211> 14

<212> PRT

<213> Conus betulinus

<400> 392

Cys	Cys	Glu	Gln	Ser	Cys	Thr	Thr	Cys	Met	Pro	Cys	Cys	Trp
1				5					10				

<210> 393

<211> 18

<212> PRT

<213> Conus characteristicus

<400> 393

Arg	Cys	Cys	Arg	Tyr	Pro	Cys	Pro	Asp	Ser	Cys	His	Gly	Ser	Cys	Cys
1				5					10					15	

Tyr Lys

<210> 394

<211> 15

<212> PRT

<213> Conus characteristicus

<400> 394

Cys	Cys	Pro	Pro	Val	Ala	Cys	Asn	Met	Gly	Cys	Lys	Pro	Cys	Cys
1				5					10					15

<210> 395

<211> 17

<212> PRT

<213> Conus characteristicus

<400> 395

Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
 1 5 10 15

Phe

<210> 396
 <211> 14
 <212> PRT
 <213> Conus characteristicus

<400> 396
 Cys Cys Arg Arg Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 397
 <211> 16
 <212> PRT
 <213> Conus textile

<400> 397
 Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Lys Pro Cys Cys Gly
 1 5 10 15

<210> 398
 <211> 19
 <212> PRT
 <213> Conus marmoreus

<220>
 <221> PEPTIDE
 <222> (1)..(19)
 <223> Xaa is Hyp

<400> 398
 Ser Lys Gln Cys Cys His Leu Ala Ala Cys Arg Phe Gly Cys Thr Xaa
 1 5 10 15

Cys Cys Asn

<210> 399
 <211> 15
 <212> PRT
 <213> Conus capitaneus

<400> 399
 Ser Cys Cys Arg Asp Cys Gly Glu Asp Cys Val Gly Cys Cys Arg
 1 5 10 15

<210> 400
 <211> 16
 <212> PRT
 <213> Conus coronatus

<400> 400
 Cys Cys Asp Trp Pro Cys Ile Pro Gly Cys Thr Pro Cys Cys Leu Pro
 1 5 10 15

<210> 401
 <211> 18
 <212> PRT
 <213> Conus dalli

<400> 401
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
 1 5 10 15

Leu Ser

<210> 402
 <211> 17
 <212> PRT
 <213> Conus dalli

<400> 402
 Glx Gln Cys Cys Pro Pro Val Ala Cys Asn Met Gly Cys Glu Pro Cys
 1 5 10 15

Cys

<210> 403
 <211> 16
 <212> PRT
 <213> Conus dalli

<400> 403
 Cys Cys Asn Ala Gly Phe Cys Arg Phe Gly Cys Thr Pro Cys Cys Trp
 1 5 10 15

<210> 404
 <211> 14
 <212> PRT
 <213> Conus distans

<400> 404
 Glx Cys Cys Val His Pro Cys Pro Cys Thr Pro Cys Cys Arg
 1 5 10

<210> 405
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 405
 Cys Cys Pro Trp Pro Cys Asn Ile Gly Cys Val Pro Cys Cys
 1 5 10

<210> 406
 <211> 14
 <212> PRT
 <213> Conus figulinus

<400> 406
 Cys Cys Ser Lys Asn Cys Ala Val Cys Ile Pro Cys Cys Pro
 1 5 10

<210> 407
 <211> 15
 <212> PRT
 <213> Conus figulinus

<400> 407
 Cys Cys Arg Trp Pro Cys Pro Ala Arg Cys Gly Ser Cys Cys Leu
 1 5 10 15

<210> 408
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 408
 Cys Cys Glu Leu Ser Arg Cys Leu Gly Cys Val Pro Cys Cys Thr Ser

113

1	5	10	15
---	---	----	----

<210> 409
 <211> 16
 <212> PRT
 <213> Conus figulinus

<400> 409
 Cys Cys Glu Leu Ser Lys Cys His Gly Cys Val Pro Cys Cys Ile Pro
 1 5 10 15

<210> 410
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 410
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 411
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 411
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Leu Thr
 1 5 10 15

<210> 412
 <211> 16
 <212> PRT
 <213> Conus generalis

<400> 412
 Glx Cys Cys Thr Phe Cys Asn Phe Gly Cys Gln Pro Cys Cys Val Pro
 1 5 10 15

<210> 413
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<400> 413
 Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Met
 1 5 10 15

Phe

<210> 414
 <211> 17
 <212> PRT
 <213> Conus gloriamaris

<400> 414
 Gly Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys
 1 5 10 15

Trp

<210> 415
 <211> 16
 <212> PRT
 <213> Conus gloriamaris

<400> 415

Cys	Cys	Ser	Trp	Asp	Val	Cys	Asp	His	Pro	Ser	Cys	Thr	Cys	Cys	Gly
1				5					10					15	

<210> 416

<211> 13

<212> PRT

<213> *Conus laterculatus*

<400> 416

Cys	Cys	Asp	Trp	Pro	Cys	Ser	Gly	Cys	Ile	Pro	Cys	Cys
1				5					10			

<210> 417

<211> 19

<212> PRT

<213> *Conus leopardus*

<400> 417

Glx	Ile	Asn	Cys	Cys	Pro	Trp	Pro	Cys	Pro	Ser	Thr	Cys	Arg	His	Gln
1				5					10					15	

Cys Cys His

<210> 418

<211> 19

<212> PRT

<213> *Conus lividus*

<400> 418

Glx	Ile	Asn	Cys	Cys	Pro	Trp	Pro	Cys	Pro	Asp	Ser	Cys	His	Tyr	Gln
1				5					10					15	

Cys Cys His

<210> 419

<211> 14

<212> PRT

<213> *Conus marmoreus*

<400> 419

Cys	Cys	Arg	Leu	Ser	Cys	Gly	Leu	Gly	Cys	His	Pro	Cys	Cys
1				5					10				

<210> 420

<211> 17

<212> PRT

<213> *Conus marmoreus*

<400> 420

Glu	Cys	Cys	Gly	Ser	Phe	Ala	Cys	Arg	Phe	Gly	Cys	Val	Pro	Cys	Cys
1				5					10					15	

Val

<210> 421

<211> 19

<212> PRT

<213> *Conus marmoreus*

<400> 421

Ser	Lys	Gln	Cys	Cys	His	Leu	Pro	Ala	Cys	Arg	Phe	Gly	Cys	Thr	Pro
1				5					10					15	

Cys Cys Trp

<210> 422
 <211> 17
 <212> PRT
 <213> Conus marmoreus

<400> 422
 Met Gly Cys Cys Pro Phe Pro Cys Lys Thr Ser Cys Thr Thr Leu Cys
 1 5 10 15

Cys

<210> 423
 <211> 14
 <212> PRT
 <213> Conus musicus

<400> 423
 Ala Cys Cys Glu Gln Ser Cys Thr Thr Cys Phe Pro Cys Cys
 1 5 10

<210> 424
 <211> 15
 <212> PRT
 <213> Conus nobilis

<400> 424
 Cys Cys Glu Leu Pro Cys Gly Pro Gly Phe Cys Val Pro Cys Cys
 1 5 10 15

<210> 425
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<400> 425
 Cys Cys Asn Ser Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 426
 <211> 17
 <212> PRT
 <213> Conus quercinus

<400> 426
 Glx Arg Cys Cys Gln Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Thr

<210> 427
 <211> 18
 <212> PRT
 <213> Conus quercinus

<400> 427
 Glx Arg Cys Cys Arg Trp Pro Cys Pro Gly Ser Cys Arg Cys Cys Arg
 1 5 10 15

Tyr Arg

<210> 428
 <211> 18
 <212> PRT
 <213> Conus quercinus

<400> 428

Arg	Cys	Cys	Arg	Tyr	Pro	Cys	Pro	Asp	Ser	Cys	His	Gly	Ser	Cys	Cys
1				5					10					15	

Tyr Lys

<210> 429

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa is Hyp

<400> 429

Cys	Cys	Ser	Gln	Asp	Cys	Leu	Val	Cys	Ile	Xaa	Cys	Cys	Pro	Asn
1				5					10					15

<210> 430

<211> 15

<212> PRT

<213> Conus quercinus

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> Xaa is Hyp

<400> 430

Cys	Cys	Ser	Arg	His	Cys	Trp	Val	Cys	Ile	Xaa	Cys	Cys	Pro	Asn
1				5					10					15

<210> 431

<211> 16

<212> PRT

<213> Conus rattus

<400> 431

Glx	Thr	Cys	Cys	Ser	Asn	Cys	Gly	Glu	Asp	Cys	Asp	Gly	Cys	Cys	Gln
1				5					10					15	

<210> 432

<211> 20

<212> PRT

<213> Conus striatus

<400> 432

Glx	Asn	Cys	Cys	Asn	Gly	Gly	Cys	Ser	Ser	Lys	Trp	Cys	Arg	Asp	His
1				5					10					15	

Ala	Arg	Cys	Cys
			20

<210> 433

<211> 12

<212> PRT

<213> Conus textile

<220>

<221> PEPTIDE

<222> (1)..(12)

<223> Xaa is Hyp

<400> 433

Cys	Cys	Arg	Thr	Cys	Phe	Gly	Cys	Thr	Xaa	Cys	Cys
1				5					10		

<210> 434

<211> 14

<212> PRT

<213> *Conus tessulatus*

<400> 434

Cys	Cys	His	Lys	Cys	Tyr	Met	Gly	Cys	Ile	Pro	Cys	Cys	Ile
1				5					10				

<210> 435

<211> 18

<212> PRT

<213> *Conus tessulatus*

<400> 435

Lys	Cys	Cys	Arg	Pro	Pro	Cys	Ala	Met	Ser	Cys	Gly	Met	Ala	Arg	Cys
1				5					10					15	

Cys Tyr

<210> 436

<211> 23

<212> PRT

<213> *Conus betulinus*

<400> 436

Arg	Cys	Cys	Arg	Trp	Pro	Cys	Pro	Ser	Ile	Cys	Gly	Met	Ala	Arg	Cys
1				5					10					15	

Cys	Phe	Val	Met	Ile	Thr	Cys
			20			

<210> 437

<211> 23

<212> PRT

<213> *Conus betulinus*

<400> 437

Arg	Cys	Cys	Arg	Trp	Pro	Cys	Pro	Ser	Arg	Cys	Gly	Met	Ala	Arg	Cys
1				5					10					15	

Cys	Phe	Val	Met	Ile	Thr	Cys
			20			

<210> 438

<211> 15

<212> PRT

<213> *Conus textile*

<400> 438

Phe	Cys	Cys	Asp	Ser	Asn	Trp	Cys	His	Asp	Cys	Glu	Cys	Cys	Tyr
1				5					10					15

<210> 439

<211> 16

<212> PRT

<213> *Conus marmoreus*

<400> 439

Cys Cys His Trp Asn Trp Cys Asp His Leu Cys Ser Cys Cys Gly Ser

1	5	10	15
---	---	----	----

<210> 440
 <211> 16
 <212> PRT
 <213> Conus marmoreus

 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

 <400> 440
 Asp Cys Cys Xaa Leu Pro Ala Cys Pro Phe Gly Cys Asn Xaa Cys Cys
 1 5 10 15

<210> 441
 <211> 16
 <212> PRT
 <213> Conus marmoreus

 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

 <400> 441
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 442
 <211> 16
 <212> PRT
 <213> Conus marmoreus

 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

 <400> 442
 Cys Cys Ala Xaa Ser Ala Cys Arg Leu Gly Cys Arg Xaa Cys Cys Arg
 1 5 10 15

<210> 443
 <211> 16
 <212> PRT
 <213> Conus marmoreus

 <220>
 <221> PEPTIDE
 <222> (1)..(16)
 <223> Xaa is Hyp

 <400> 443
 Cys Cys Ala Pro Ser Ala Cys Arg Leu Gly Cys Arg Pro Cys Cys Arg
 1 5 10 15

<210> 444
 <211> 17
 <212> PRT
 <213> Conus marmoreus

 <220>
 <221> PEPTIDE
 <222> (1)..(17)
 <223> Xaa is Hyp

 <400> 444
 Gly Cys Cys Gly Ser Phe Ala Cys Arg Phe Gly Cys Val Xaa Cys Cys

1 5 10 15

Val

<210> 445
<211> 15
<212> PRT
<213> Conus textile

<400> 445
Cys Cys Ser Trp Asp Val Cys Asp His Pro Ser Cys Thr Cys Cys
1 5 10 15

<210> 446
<211> 16
<212> PRT
<213> Conus textile

<400> 446
Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Arg Tyr Leu Cys Cys
1 5 10 15

<210> 447
<211> 17
<212> PRT
<213> Conus aureus

<400> 447
Cys Cys Asp Asp Ser Glu Cys Asp Tyr Ser Cys Trp Pro Cys Cys Ile
1 5 10 15

Phe

<210> 448
<211> 16
<212> PRT
<213> Conus aureus

<400> 448
Cys Cys Asn Asp Trp Glu Cys Asp Asp Ser Cys Trp Pro Cys Cys Tyr
1 5 10 15

<210> 449
<211> 16
<212> PRT
<213> Conus ammiralis

<400> 449
Arg Cys Cys Arg Phe Pro Cys Pro Asp Thr Cys Arg His Leu Cys Cys
1 5 10 15

<210> 450
<211> 12
<212> PRT
<213> Conus ammiralis

<400> 450
Cys Cys Met Thr Cys Phe Gly Cys Thr Pro Cys Cys
1 5 10

<210> 451
<211> 18
<212> PRT
<213> Conus ammiralis

<400> 451

Cys	Cys	Asp	Asp	Ser	Glu	Cys	Asp	Tyr	Ser	Cys	Trp	Pro	Cys	Cys	Ile
1				5					10					15	

Phe Ser

<210> 452

<211> 13

<212> PRT

<213> Conus ammiralis

<400> 452

Cys	Cys	Arg	Leu	Leu	Cys	Leu	Ser	Cys	Asn	Pro	Cys	Cys
1				5					10			

<210> 453

<211> 16

<212> PRT

<213> Conus ammiralis

<400> 453

Cys	Cys	Asp	Asp	Ser	Glu	Cys	Gly	Tyr	Ser	Cys	Trp	Pro	Cys	Cys	Tyr
1				5					10					15	

<210> 454

<211> 16

<212> PRT

<213> Conus aulicus

<400> 454

Gly	Cys	Cys	Ser	Pro	Pro	Cys	His	Ser	Ile	Cys	Ala	Ala	Phe	Cys	Cys
1				5					10					15	

<210> 455

<211> 15

<212> PRT

<213> Conus aulicus

<400> 455

Cys	Cys	Arg	Pro	Val	Ala	Cys	Ala	Met	Gly	Cys	Lys	Pro	Cys	Cys
1				5					10					15

<210> 456

<211> 16

<212> PRT

<213> Conus aulicus

<400> 456

Glx	Cys	Cys	Pro	Ala	Val	Ala	Cys	Ala	Met	Gly	Cys	Glu	Pro	Cys	Cys
1				5					10					15	

<210> 457

<211> 18

<212> PRT

<213> Conus emaciatatus

<400> 457

Cys	Cys	Ser	Arg	Asp	Cys	Ser	Val	Cys	Ile	Pro	Cys	Cys	Pro	Tyr	Gly
1				5					10					15	

Ser Pro

<210> 458

<211> 16

<212> PRT

<213> Conus episcopatus

<400> 458
 Cys Cys Asp Glu Asp Glu Cys Asn Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 459
 <211> 16
 <212> PRT
 <213> *Conus episcopatus*

<400> 459
 Cys Cys Asp Glu Asp Glu Cys Ser Ser Ser Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 460
 <211> 15
 <212> PRT
 <213> *Conus episcopatus*

<400> 460
 Cys Cys Pro Ala Ala Ala Cys Ala Met Gly Cys Lys Pro Cys Cys
 1 5 10 15

<210> 461
 <211> 16
 <212> PRT
 <213> *Conus omaria*

<400> 461
 Cys Cys Asp Glu Glu Glu Cys Ser Ser Ala Cys Trp Pro Cys Cys Trp
 1 5 10 15

<210> 462
 <211> 16
 <212> PRT
 <213> *Conus omaria*

<400> 462
 Cys Cys His Leu Leu Ala Cys Arg Phe Gly Cys Ser Pro Cys Cys Trp
 1 5 10 15

<210> 463
 <211> 12
 <212> PRT
 <213> *Conus spurius*

<400> 463
 Cys Cys Pro Arg Cys Ser Glu Cys Asn Pro Cys Cys
 1 5 10

<210> 464
 <211> 16
 <212> PRT
 <213> *Conus pennaceus*

<400> 464
 Arg Cys Cys Lys Phe Pro Cys Pro Asp Ser Cys Lys Tyr Leu Cys Cys
 1 5 10 15

<210> 465
 <211> 19
 <212> PRT
 <213> *Conus flavidus*

<400> 465
 Arg Cys Cys Arg Trp Pro Cys Pro Ser Ile Cys Gly Met Ala Arg Cys

1	5	10	15
---	---	----	----

Cys Ser Ser

<210> 466
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<400> 466
 Cys Cys Lys Leu Leu Cys Gly Cys Thr Pro Cys Cys His Ile
 1 5 10

<210> 467
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<400> 467
 Cys Cys Glu Gln Pro Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10 15

<210> 468
 <211> 15
 <212> PRT
 <213> Conus ebraceus

<400> 468
 Cys Cys Ala Gln Pro Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10 15

<210> 469
 <211> 14
 <212> PRT
 <213> Conus pulicarius

<400> 469
 Cys Cys Val Ser Cys Tyr Met Gly Cys Ile Pro Cys Cys Phe
 1 5 10

<210> 470
 <211> 16
 <212> PRT
 <213> Conus miliaris

<400> 470
 Cys Cys Asp Trp Pro Cys Ser Ala Gly Cys Tyr Pro Cys Cys Phe Pro
 1 5 10 15

<210> 471
 <211> 16
 <212> PRT
 <213> Conus miliaris

<400> 471
 Gly Cys Cys Pro Pro Met Cys Thr Pro Cys Phe Pro Cys Cys Phe Arg
 1 5 10 15

<210> 472
 <211> 23
 <212> PRT
 <213> Conus rattus

<400> 472
 Arg Gly Cys Cys Ala Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys Lys
 1 5 10 15

Pro Ala Arg Cys Cys Gly Pro
20

<210> 473
<211> 22
<212> PRT
<213> Conus stercusmuscarum

<400> 473
Glx Arg Cys Cys Asn Gly Arg Arg Gly Cys Ser Ser Arg Trp Cys Arg
1 5 10 15

Asp His Ser Arg Cys Cys
20

<210> 474
<211> 22
<212> PRT
<213> Conus consors

<400> 474
Gly Arg Cys Cys Asp Val Pro Asn Ala Cys Ser Gly Arg Trp Cys Arg
1 5 10 15

Asp His Ala Gln Cys Cys
20

<210> 475
<211> 23
<212> PRT
<213> Conus consors

<400> 475
Glx Arg Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Ser Leu Lys Cys Cys Ser
20

<210> 476
<211> 22
<212> PRT
<213> Conus aurisiacus

<400> 476
Met Cys Cys Gly Glu Gly Arg Lys Cys Pro Ser Tyr Phe Arg Asn Ser
1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 477
<211> 19
<212> PRT
<213> Conus aurisiacus

<400> 477
Cys Cys Arg Trp Pro Cys Pro Arg Gln Ile Asp Gly Glu Tyr Cys Gly
1 5 10 15

Cys Cys Leu

<210> 478
<211> 22

<212> PRT

<213> *Conus bullatus*

<400> 478

Arg Cys Cys Gly Glu Gly Leu Thr Cys Pro Arg Tyr Trp Lys Asn Ser
1 5 10 15

Gln Ile Cys Ala Cys Cys
20

<210> 479

<211> 21

<212> PRT

<213> *Conus characteristicus*

<400> 479

Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
1 5 10 15

Ile Cys Gly Cys Cys
20

<210> 480

<211> 23

<212> PRT

<213> *Conus circumcissus*

<400> 480

Arg Lys Cys Cys Gly Lys Asp Gly Pro Cys Pro Lys Tyr Phe Lys Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 481

<211> 20

<212> PRT

<213> *Conus ermineus*

<400> 481

Cys Cys Ser Trp Pro Cys Pro Arg Tyr Ser Asn Gly Lys Leu Val Cys
1 5 10 15

Phe Cys Cys Leu
20

<210> 482

<211> 21

<212> PRT

<213> *Conus magus*

<400> 482

Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp Asn Phe
1 5 10 15

Ile Cys Gly Cys Cys
20

<210> 483

<211> 22

<212> PRT

<213> *Conus magus*

<400> 483

Met Cys Cys Gly Glu Ser Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser

1 5 10 15

Gln Ile Cys His Cys Cys
20

<210> 484
<211> 22
<212> PRT
<213> Conus magus
<400> 484
Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Thr Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys
20

<210> 485
<211> 23
<212> PRT
<213> Conus magus
<400> 485
Glx Lys Cys Cys Gly Pro Gly Gly Ser Cys Pro Val Tyr Phe Arg Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 486
<211> 23
<212> PRT
<213> Conus striatus
<400> 486
Glx Lys Cys Cys Gly Glu Gly Ser Ser Cys Pro Lys Tyr Phe Lys Asn
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 487
<211> 22
<212> PRT
<213> Conus magus
<400> 487
Glx Lys Cys Cys Ser Gly Gly Ser Cys Pro Leu Tyr Phe Arg Asp Arg
1 5 10 15

Leu Ile Cys Pro Cys Cys
20

<210> 488
<211> 23
<212> PRT
<213> Conus stercusmuscarum
<400> 488
Glx Lys Cys Cys Gly Pro Gly Ala Ser Cys Pro Arg Tyr Phe Lys Asp
1 5 10 15

Asn Phe Ile Cys Gly Cys Cys
20

<210> 489

<211> 22
 <212> PRT
 <213> Conus consors

<400> 489
 Met Cys Cys Gly Glu Gly Ala Pro Cys Pro Ser Tyr Phe Arg Asn Ser
 1 5 10 15
 Gln Ile Cys His Cys Cys
 20

<210> 490
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<400> 490
 Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 491
 <211> 23
 <212> PRT
 <213> Conus aurisiacus

<400> 491
 Glx Lys Cys Cys Thr Gly Arg Lys Gly Ser Cys Ser Gly Lys Ala Cys
 1 5 10 15
 Lys Asn Leu Lys Cys Cys Ser
 20

<210> 492
 <211> 23
 <212> PRT
 <213> Conus bullatus

<400> 492
 Val Thr Asp Arg Cys Cys Lys Gly Lys Arg Glu Cys Gly Arg Trp Cys
 1 5 10 15
 Arg Asp His Ser Arg Cys Cys
 20

<210> 493
 <211> 23
 <212> PRT
 <213> Conus bullatus

<400> 493
 Val Gly Asp Arg Cys Cys Lys Gly Lys Arg Gly Cys Gly Arg Trp Cys
 1 5 10 15
 Arg Asp His Ser Arg Cys Cys
 20

<210> 494
 <211> 24
 <212> PRT
 <213> Conus bullatus

<400> 494

Val Gly Glu Arg Cys Cys Lys Asn Gly Lys Arg Gly Cys Gly Arg Trp
 1 5 10 15

Cys Arg Asp His Ser Arg Cys Cys
 20

<210> 495
 <211> 26
 <212> PRT
 <213> Conus bullatus

<400> 495
 Ile Val Asp Arg Cys Cys Asn Lys Gly Asn Gly Lys Arg Gly Cys Ser
 1 5 10 15

Arg Trp Cys Arg Asp His Ser Arg Cys Cys
 20 25

<210> 496
 <211> 25
 <212> PRT
 <213> Conus bullatus

<400> 496
 Val Gly Cys Cys Arg Pro Lys Pro Asn Gly Gln Met Met Cys Asp Arg
 1 5 10 15

Trp Cys Glu Lys Asn Ser Arg Cys Cys
 20 25

<210> 497
 <211> 22
 <212> PRT
 <213> Conus characteristicus

<400> 497
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Pro Gln Arg Cys Cys Ala
 20

<210> 498
 <211> 23
 <212> PRT
 <213> Conus lynceus

<400> 498
 Gly Arg Asp Cys Cys Thr Pro Pro Arg Lys Cys Arg Asp Arg Ala Cys
 1 5 10 15

Lys Pro Gln Arg Cys Cys Gly
 20

<210> 499
 <211> 22
 <212> PRT
 <213> Conus lynceus

<400> 499
 Glx Arg Leu Cys Cys Gly Phe Pro Lys Ser Cys Arg Ser Arg Gln Cys
 1 5 10 15

Lys Pro His Arg Cys Cys
 20

<210> 500
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<400> 500
 Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Arg Asp Arg Gln Cys Lys
 1 5 10 15
 Pro Ala Arg Cys Cys Gly
 20

<210> 501
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<400> 501
 Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys Glu Ser Cys
 1 5 10 15
 Met Arg Lys Ala Cys Cys
 20

<210> 502
 <211> 22
 <212> PRT
 <213> Conus laterculatus

<400> 502
 Arg Pro Pro Cys Cys Thr Tyr Asp Gly Ser Cys Leu Lys Glu Ser Cys
 1 5 10 15
 Lys Arg Lys Ala Cys Cys
 20

<210> 503
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 503
 Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15
 Xaa Gln Arg Cys Cys Ala
 20

<210> 504
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 504

Arg Asp Cys Cys Thr Xaa Xaa Arg Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Met Lys Cys Cys Ala
 20

<210> 505
 <211> 22
 <212> PRT
 <213> Conus geographus

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 505

Arg Asp Cys Cys Thr Xaa Xaa Lys Lys Cys Lys Asp Arg Arg Cys Lys
 1 5 10 15

Xaa Leu Lys Cys Cys Ala
 20

<210> 506
 <211> 22
 <212> PRT
 <213> Conus purpurascens

<220>
 <221> PEPTIDE
 <222> (1)..(22)
 <223> Xaa is Hyp

<400> 506

Glx Arg Leu Cys Cys Gly Phe Xaa Lys Ser Cys Arg Ser Arg Gln Cys
 1 5 10 15

Lys Xaa His Arg Cys Cys
 20

<210> 507
 <211> 22
 <212> PRT
 <213> Conus magus

<400> 507

Arg Asp Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Gln Cys Lys
 1 5 10 15

Pro Gln Arg Cys Cys Ala
 20

<210> 508
 <211> 24
 <212> PRT
 <213> Conus marmoreus

<400> 508

Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
 1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
 20

<210> 509
 <211> 23

<212> PRT

<213> *Conus nobilis*

<400> 509

Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 510

<211> 24

<212> PRT

<213> *Conus parius*

<400> 510

Arg Gly Gly Cys Cys Thr Pro Pro Lys Lys Cys Lys Asp Arg Ala Cys
1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
20

<210> 511

<211> 23

<212> PRT

<213> *Conus parius*

<400> 511

Arg Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys Lys
1 5 10 15

Pro Ala Arg Cys Cys Gly Pro
20

<210> 512

<211> 24

<212> PRT

<213> *Conus radiatus*

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa is Hyp

<400> 512

Leu Xaa Ser Cys Cys Ser Leu Asn Leu Arg Leu Cys Xaa Val Xaa Ala
1 5 10 15

Cys Lys Arg Asn Xaa Cys Cys Thr
20

<210> 513

<211> 24

<212> PRT

<213> *Conus radiatus*

<220>

<221> PEPTIDE

<222> (1)..(24)

<223> Xaa is Hyp

<400> 513

Glx Gln Arg Cys Cys Thr Val Lys Arg Ile Cys Xaa Val Xaa Ala Cys
1 5 10 15

Arg Ser Lys Xaa Cys Cys Lys Ser
20

<210> 514
<211> 24
<212> PRT
<213> Conus radiatus

<400> 514
Arg Gly Gly Cys Cys Thr Pro Pro Arg Lys Cys Lys Asp Arg Ala Cys
1 5 10 15

Lys Pro Ala Arg Cys Cys Gly Pro
20

<210> 515
<211> 23
<212> PRT
<213> Conus stercusmuscarum

<400> 515
Glx Lys Cys Cys Thr Gly Lys Lys Gly Ser Cys Ser Gly Lys Ala Cys
1 5 10 15

Lys Asn Leu Lys Cys Cys Ser
20

<210> 516
<211> 21
<212> PRT
<213> Conus tulipa

<220>
<221> PEPTIDE
<222> (1)..(21)
<223> Xaa is Hyp

<400> 516

His Gly Cys Cys Lys Gly Xaa Glu Gly Cys Ser Ser Arg Glu Cys Arg
1 5 10 15

Xaa Gln His Cys Cys
20

<210> 517
<211> 21
<212> PRT
<213> Conus tulipa

<400> 517
His Gly Cys Cys Glu Gly Pro Lys Gly Cys Ser Ser Arg Glu Cys Arg
1 5 10 15

Pro Gln His Cys Cys
20

<210> 518
<211> 23
<212> PRT
<213> Conus wittigi

<400> 518
Leu Pro Ser Cys Cys Asp Phe Glu Arg Leu Cys Val Val Pro Ala Cys
1 5 10 15

Ile Arg His Gln Cys Cys Thr
20

<210> 519
<211> 17
<212> PRT
<213> Conus omaria

<400> 519
Cys Cys Lys Tyr Gly Trp Thr Cys Leu Leu Gly Cys Thr Pro Cys Asp
1 5 10 15

Cys

<210> 520
<211> 17
<212> PRT
<213> Conus omaria

<400> 520
Cys Cys Arg Tyr Gly Trp Thr Cys Trp Leu Gly Cys Thr Pro Cys Gly
1 5 10 15

Cys